

View taken on the ESPLANADE CALCUTTA, where is now CHANDPAL GHAT From an engraving by Thos' & Wm, DANIELL 1797

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Biographical—Historical—Administrative—Commercial

Vol II

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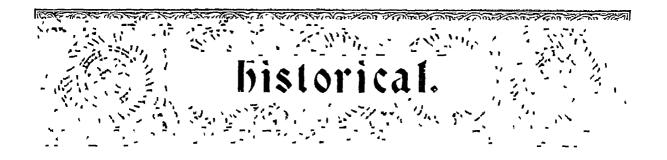
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PART II

MOHAMMEDAN RULE

CHAPTER I

EARLY MOHAMMEDAN INVASIONS
AFGHAN AND TURKI KINGS

I —Mahmoud (of Ghazni) and Mohammed Ghori

In that glorious series of successes scored by the

conquering Arabs of early Islam, Arab conquest of India played but little part With Sindh, 712 in a generation of the Hegira, the Arabs had conquered Egypt and North Africa, Syria and Persia The outlying provinces of the Eastern Ro man Empire were lopped off one by one, and the eternal struggle between Byzantium and Persia was terminat ed by the defeat of both at the hands of a common foe The splendid Ommiad Khalifat, with its capital at Damascus, within a century of the Prophet's death ruled from the Oxus to the Ebro The Hindu Kush, however, opposed a sufficient barrier to any Moslems who looked eagerly towards India, and the only wave of the mighty conquering flood which reached India was confined to a single corner of the vast peninsula, the lower valley of the Indus In 712, at a time when the fatal battle of Xeres had just annihilated the Gothic kingdoms in Spain, and when Kashgar was being invaded by an Arab host, Sindh and Multan were added to the dominions of Islam by a young general, Mohammed Kasım The oppression of the Hindu rulers and jealousies of race and creed, made the conquest of the mixed population in this region the work of a few months Kasım's romantic career ended tragically, but the dominions he had conquered remained for a while under the successors of 'the Prophet,' though after a generation or two this leadership was only nominal The Mohammedan government score to have been becauted. ment seems to have been honest and tolerant enough while it lasted, a characteristic which indeed was

demanded by the necessity of conciliating the inhabitants, since the Mohammedans in Sindh received few,

if any, reinforcements from head-quarters. Native

dynasties soon rose again, and the early Arab triumph led to no great results
It was not the beginning of the

Failure of the Conquest

The time was not yet ripe for extending the banner of Islam over the land of the Vedas and of Buddha Moreover, the attack had been made from the wrong quarter, and had entered an unproductive region separated by barren wastes from the rich and tempting provinces of Hindustan The Arabs had exhausted their strength in other conquests, and the subjection of India was reserved for the vigorous young race of Turks from Cential Asia

The Turks were one amongst the many branches of that vast Mongol race, to which the Emperors of China, the Huns, the Sakas and the Yueh chi belonged

The most ruthless devastators in the world's history, Attıla, Jenghiz Khan, Timur, have all been Mongols Attıla was the chief of the Western Huns, who scourged Europe at a time when the White Huns under Toramana were afflicting India, Jenghiz Khan and Timur were chiefs of a later Mongol horde, known as Moguls, and Timur was the direct ancestor of the Mogul emperors of India The Turks rose to power and fame midway between the Huns and Moguls First appearing under that name in the 6th century, they at length during the roth and 11th centuries became the dominant race in Asia and gave at least three great empires to history, that of the Seljuks, that of the Ottomans and that of the While Turkish warriors were acquiring control over the provinces of the Khalifat and building up the Seliuk empire under which the Khalifs sank to the position of rois feneants, Alptagin, a Turkish warrior, founded a small principality at Ghazni, in the

Foundation of the Kingdom of Ghazni, 962 heart of the Afghan mountains Sabuktagin, a slave of Alptagin, succeeded his master on the throne and rapidly extended the limits of

his kingdom Seistan and Khorasan were subdued, and a Brahman Raja in the Punjab was forced to pay tribute to the Turkish king The invasion of India, thus pointed out by Sabuktagin, was undertaken on a larger scale by his son Mahmoud who succeeded to the Ghaznavide throne in 997 Mahmoud of Ghazni zealot of restless activity and insitu 997 1030 able ambition, Mahmoud vowed to wage yearly a Holy War against the infidels of Hindustan "Between the years 1000 and 1026 he made at least sixteen distinct campaigns in India, in which he ranged across the plans from the Indus to the Ganges" Jupal, that ruja of the Punjub whom Sabuktagin had partially subdued, was overthrown by a powerful Turkish host and sought death on the funeral pyre rather than dishonour. His son Anand pal, with a measureless host, all but checked the career of the conqueror, but a sudden panic scattered his vast army, and Mahmoud became undisputed master The plunder carried off to Ghazni of the Puniab was almost incredible in its value and it stimulated the religious aidour of Mahmoud

His Indian Expedi to fresh exertions No concerted tions resistance seems to have been offered, and the disunion of the kingdoms of India served the conqueror in much the same way as the jealousies of native chiefs had assisted Alexander Tomaras, Palas, Kalachuris and Chandellas, all suc d beneath the overmastering energy of the Cities and forts innumerable were captured, cumbed temples and idols thrown down. The fame of Mah moud's booty sprend throughout Asia, and thousands of volunteers from beyond the Oxus came trooping into his camp The year 1018 which marks his great est campaign, saw the sack of Mathura and Kanoui, and the Bay of Bengal witnessed the terrific onslaught of the mountain zealots The campaigns of Mahmoud concluded with the march into Gujerat and the sack of Somnath in 1026 The destruction of the sicied shrine and its famous linga together with the removal of the temple gates to Ghazni, earned for the Icono

clast the execration of every pious Hindu and the veneration of every devoted Moslem. But Mahmoud aimed at no permanent conquest of India. His expeditions were little more than plundering rids his followers clung to their Afghan home, and the forces of the Rajputs, though disunited, were too great to admit of a permanent occupation. Moreover, the wish to rule over India was probably lacking. Mahmoud had extended his rule over the greater part of Persia and chose rather to rule over a Moslem people than be the lord of 'infidels' To Moslems he was the pattern king, zealous for the faith,

Mahmoud's character and Court and a mighty conqueror, yet wise and cultured, a liberal encourager of the arts, and a patron of learned men At his cultivated court flourished Alberuni, the chronologist, famous for his account of India Brihaki, whose memoirs are a mine of historical and biographical information and Firdusi, whose greatepic, the 'Shah Namah,' has earned him the title of 'the Persian Homer' Mahmoud founded a great university at Ghazni, and was a lavish builder of mosques and productive public works. Such a man is not really a great constructive statesman. He does not elaborate principles of administration which will neutralize the possible incapacity of his

successors, but he relies rather on his strong arm and vigilant activity to govern in accordance with the needs of the moment, and to meet all difficulties is they mise Hence the dominions of Mahmoud were poorly knit together, and the vist empire ripidly fell to pieces when the genius of its creator wis no more. For a century and a half, it is true, the Ghaznavide empire survived, but suffered contin uous diminution in size and strength. As early is 1040 Persia and Khorasan passed over to the Schuks, and the viceroys of the Punjab not seldom rebelled und sought to establish independence. But the Seljuk peril moved further west, and the Ghaznay des maintained their hold over Afghanist in in the Punjab During the 12th century, however, a danger arose in their midst. An Afghan family inhabiting the eastle of Firoz Kol in the hills of Ghor between Ghazi 1 and Herat, entered upon a blood feud with the later Ghaz

Ricof the House of had eagerly followed into the plains of India In 1155 Ali ud din, the 'world burner,' sicked and rized the city of Ghizni, and drove his overlord into the Punjab Thirty years later the nephews of this chief, Ghivas ud din and Muz ud din—generally known is Mohammed

Mohammed Ghoris Conquest of India, 1182 1206 Ghoris India, and divided it between them Ghivis ud din remained for a time

predomin int in Afghanist in, while his brother over threw the Mohammed in kingdoms of India, and then turned his arms iguist the Hindu kingdoms of the north Sindh was subdued in 1182, and by the defeat of the last Ghaznavide, the Punjab fell into Moham med's hands in 1186. Whatever assimilation between Moslem and Hindu had marked the last hundred years in the north west was now brought to an end Mohammed Ghori was imbued with the same fanatic real as his predecessor and prototype. Mahmoud the Iconoclast. Afghins, Turks, Persians flocked eagerly to his standard and for years he harried the fair countries of Hindustan, overthrowing cities and king doms, destroying temples and idols. A decisive reverse experienced in rigi at the hands of the Rajput lord of Delhi and Ajmir, Piithi Raja, was atoned for in 1192, when a charge of 12,000 horsemen in steel array shatter ed the Hindu chivalry In 1193 Ajmii and Delhi fell into the hands of the conqueror, while in the following year Kanouj and Benires under their Gaharwar or Rahtore chiefs, as also Bundelkhand, became part of the Empire of Ghor Mohammed was greatly assisted in these operations by his slave, Kutb ud din Aybek, who was appointed Viceroy of India The latter busied himself with the reduction of Malwa and Gujerat, in which he was only partially successful, while another general. Bakhtivar, with the greatest ease overcame the native dynasties in Behar and Bengal * By 1205 nearly all India north of the Vindhyas had been subdued Mohammed Ghori meanwhile busied himself with a disastrous expedition in Central Asia, but his Viceiov remained true

^{*} The fall of most of the native kingdoms was alluded to on pp $\,$ 38 39, Vol $\,$ I

to him and he returned to India to resume the sover cignty. His death which shortly followed (1206) severed the connection between India and Alghan istan Kuth ud din becoming the Sult in of India while Ghor and Ghazm remained subject to the house of Ghor. Though the dominion so magnificently conquered was lost to the house of Ghor at was not lost to islam. Mohammed's conquests were of a far more permanent character than those of Mahmoud, and his successors so consolidated them, that from his day until the Indian Mutary of 1857 there was always a Mohammedan lang upon the throne of Della Parst came two dynastics of Turkish and Afghan Lings who alled the throne from 1.06 to 15.6. In 1526 Babar's conquest ushered in the Mogul period thenceforward until 1857 with a few short breaks a Mogul regned is the Mohammed in Imperor of India

Now that India had a Mohammed in Jang of her own, and was no longer merely part of a wider empire this history can confine itself almost cearely to Indian matters, without Mehinant ale 1 paising to examine the political struction of the bordering countries. The three cen turies prior to 15-6 is ilso in large measure those suc eccding are to be studied mainly from a biographical point of view. The gradual conquest of the pennisula by Mohammed in arms gives scope of course to mili tury history, but the illustration of the uniof win remains rather the work of the specialist. Of consti tution building or civil development, such as fills so large a space in the history of Western nations, there is little to be sud. Men not methods, make up the history of the East. Nor did the religious or social condition of the Hindus undergo great change during the period under treatment. Beyond the conversion forcible or voluntary, of many millions of Hindus, the religious system established in Puranil times suffered from no great uplies at 1 The Mohammed insquarrelled amongst each other over religion and bitter enuity

was stirred up between Sunni, Shigh It intere t mainly and Sufi, but such quarrels affected little the conditions of the masses and must be only noticed in so far is they fostered disumon among the governing race, or threatened the dismemberment of the Delhi Empire. On the whole, the social system of the Hindus, if it changed it ill, changed for the worse. Still in opening was to be found for those who rebelled iguist ciste bonds Admission into the great easte of Islam overthrew all barriers opposed by the Hindu system to the ambition of the hereditarily degraded ones. Many Sudi is availed themselves of this opportunity, particularly in Bengal Still, for the majority, things remained unchanged Strife might rage first between Moslem and Handu, then between Moslem and Moslem, but the humble ryot knew little and eared little for the staring deeds going on around him. It is then on kings and thrones that one's eyes must steadily be fixed. A "drum and trumpet history " may find no justification in the case of a progress ve state where political, social and religious evolution is proceeding. Such a style of history would have been as in applicable to the Hindu Period of Indian history as to modern England or ancient Greece But in the Mohammedan Period the barren

ness of national life and intellectual movements is so marked that history cannot but be mainly political

II - I he Sla c, Khilji and Fughlak Dynastics

Luth ud din, the first Slave Sultan of Delhi, survived his master only four years. Most of his conquests were made previous to 1205, and the rest of his life was devoted to administration and building. The Kuth Minur, the fallest minure in the world, was constructed according to his order. The empire which Kuth ud din did not live long enough to consolidate was

Catablished on a firmer and wider basis by the great Altamsh, one of the many Turkish slaves who at this period rose to eminence alike in India. Egypt and Western Asia. The greater part of Altamsh's reign

was occupied with the repression

Minn b of contumacious governors and 1711 17 wirs igainst rebellious Hindus The Ripputs of Milwa were defeated, and Moham med in iscendingly more firmly planted north of the Vindhyas The Monrol hordes of Jenghiz Khan appeared on the frontiers in 1221, but after ravaging the border provinces of Altamsh they turned their exes westwird, so that India had a short respite from buburous invasion. The career of Altamsh was so successful that the Khaht of Bagdad sent to invest him with the robe of office as recognized sovereign of India This recognition was marked by the introduc tion of a new silver comage, the inscription on which-Aid of the Commander of the Pathful —asserted the connection between the Indian Sultans and the accredited head of the Moslem faith. Altamsh was succeeded after a short interval by his daughter, Raziya, the only female sovereign who ever sat on the Moham med in throne of Delhi Her Lingly qualities had led Altumsh to indicate her as his heir, and she indeed dis played a capacity for rule seldom equalled by an Orien til wom in Teirned energetic, just and wise, she was equally fearless at the council board and at the head

of her irms, but the stern faith of Rariy 1 Mohammed found little place for a 17:15 12:10 female ruler That she showed favour to in Abyssinian slave was the occasion of an offence which roused the Turkish chiefs ignist her, ind after a short and chequered reign she was deposed and put to death Ten years of plots and murders made up the inglorious reigns of a brother and nephew of Raziva, until in 1246, Nasir uddin, the youngest son of Altimsh, succeeded to the throne Asimple and religious gentleman, this monarch had no capacity for controlling the turbulent elements at work in the 13th century | Fortunately he was assisted, and served with consistent loyalty by Balban, a con spicuously able Turkish slave and a grandson in law of Altamsh For twenty years Bal

of Altamsh For twenty years Balbun (Sultan)

Balbun (Sultan)
1266 1287

Ins own right His ruthless severity and the rapidity
of his strokes are famous in history. But it was only
thus that the king of Delhi could make good his
authority in such a time. The repeated inroads of
Mongols, the disaffection of Hindus, the jealousies

and revolts of Turkish chiefs, the prevalence of robbery and brigandage, were elements of disintegration which but for a strong king, would have reduced India to a chaos. To resist the Mongols, Balban disciplined his army to the highest point of efficiency and himself remained constantly on the alert near his capital, reads to march at a moment's notice against the dreaded for His measures successfully warned off the Mongols, but as he was but seldom seen in the outlying provinces the governors, with shortsighted policy, sought to make themselves independent. But when Fughril, governor of Bengal, revolted, his punishment became an inful warning to the rest. The slaver of Tughril was rich ly rewarded and the distificated Hindus were inspired with ferr by the severity of the conqueror Sultan returned to Lakhnauti (after the defeat and death of Tughril) and there ordered that gibbets should be erected along both sides of the great bazar which was more than a kos in length. He ordered all the sons and sons in law of Tughtil, and all men who had served him, or boing arms for him to be slain, and placed upon The punishments went on during the gibbets the two or three days that the Sultan remained at Iakh nauti, and the beholders were so horrified that they nearly died of fear "* A son of Balban was appointed Vicerov of the seditious province, and his descendants maintained the rule until after the Khilji dynasty of Delhi had passed away (1282-1339) Rebellious Lurk ish chiefs, whether landholders or officials, found their power ruthlessly curtailed Thus Balban prevented anything in the nature of a barons' war, which would have been the signal for a widespread Hindurcolt A year was spent in exterminating the outlaws and suppressing the forays of the hillmen, both of which had made trav lling and commerce unsafe, and lind even terrified the suburbs of the capital So for sixty years to come, the roads were free from robbers, and the people became tractable, obedient and submissive

The dignity of the imperial throne was rigidly upheld by Balban "No sovereign had ever before exhibited such pomp and grandeur in Delhi For the twenty two years that Balban reigned, he maintained the dig nity, honour and majesty of the throne in a manner that could not be surpassed Certain of his attendants that waited on him in private assured me that they never saw him otherwise than full dressed. During the whole time that he was Khan and Sultan, extending over nearly forty years, he never conversed with persons of low origin or occupation, and never indulged in any familiarity, either with friends or strangers, by which the dignity of the sovereign could be lowered"t Similarly he gave no high posts to vulgar or worthless persons, had no base favourites, abstained from drinking and low pleasures This was an ideal but seldom attained by the Turk and Afghan kings of Delhi, and it largely explains Balban's success as a statesman and Sultan He was, in short, one of the most notable figures among the Mohammedan emperors of India But, like Louis XIV of France, he did too much himself He trained no ministers, and he left no fit successors One capable son he had had, who pre deceased him, and the throne

1 Barni 1bid, p 100

fell to a grandson, who within three years "drank and debauched himself into a hopeless, paralytic 1 A reaction against the Turks tool place, and the Michin clan of the Khiljis mounted the throne of Delhi

The Khilji dynasty lasted thirty years and in cluded six sovereigns. The first Julul aid din, was a mild old man of The Khiljin Jalal u I de seventy years who systematically refused to shed blood even for 17,017,5 flugrant crimes. After the defeat

of a revolt led by a nephew of Balban, the Sultan entertained the captive nobles is his puests had shown creat attention to thos prisoners who deserved death, and had made them his guists. He had removed the fetters of rebels who all desired punishment and had set them free Such unworted clemency exisperated his followers who were accustomed to look for dignity and severity in their rulers. malcontents found a leader in Ma ud din the Sul-The simple, unsuspecting land was t in 5 nephev beginded into a trap and brutally murdered. This base

crime for a time at least brought Mitlen its perpetrator no ill luck 12, 1316 din was a powerful ruler, who reigned

with unexampled vigour for twenty years, and greatly extended the Moslem dominion in India. He was ever more successful in his conquests than Balban, the pre emment monarch of the preceding dynamics skill as a soldier had been proved by a successful invasion of the Decem, and the capture of Deogra the Mahratta capital, during the life of Julal ad dinifter his accession the new Sultan was confronted with

the Mongol danger in the north Lyterds the Moham west, but a host of 200 000 raedan I mp re Mongols were dispersed by the dash of the Moslem charge. Prosperity seemed to attend all

the Sultan's undertakings and in the words of Barm

One success followed another, despatches of victors came in from all sides. Livery year he had two or three sons born, affairs of state went on according to his wish and to his satisfaction, his treasury was overflowing, boxes and caskets of jewels and pearls were daily displaced before his eyes, he had numerous cleph ints in his stables and 70,000 horses in the city and its environs, two or three regions were subject to his swar and he had no apprehension of enemies to his kingdom or of my rival to his throne. All this prosperity intoxicated Vast desires and great aims, far beyond him or a hundred thousand like him formed their germs in his brain, and he entertained fancies which had never occurred to my king before him

His character and In his exaltation, ignorance, and ract schemes folly, he quite lost his head, forming the most impossible schemes and nourishing the most extravigant desires. He was a man of no learning, and never associated with men of learning He could not read or write a letter. Ke was bad tempered, obstmate, and hard hearted but the world smiled upon him, fortune befriended him, and his schemes were generally successful so he only became the more reckless and irrogant." Such wild schemes were the establishment of a new religion, and the dream of conquering the world in the form of a second Alexander An uncle of the historian Barni counselled

^{*} Barn, Tarikh i Firoz Shah Elliot History of India as told by its own historians Vol III, p 119

the Sultan to abjure this fool's paradise, to give up wine bibbing and to reduce the still independent Hindu strongholds of Rajputana and Westein India The wisdom of this advice was proved when even the capture of the Hindu foit, Rantambhoi, near Delhi,

taxed all his energies. A series of mutinies and insurrections assisted to rouse. Ala ud din from his security

and pride Having ieduced the realm to order, he next directed his attention to the means of preventing rebellion in the future. The methods employed were extraordinary and tyrannical. Widespread confiscations of property took place "the people were pressed and amerced, money was exacted from them on every kind of pretence. All the pensions, grants in land, and endowments in the country were appropriated.

The people were all so absorbed in obtaining the means of living that the very name

Repressive measures of rebellion was never mentioned *
Secondly, he provided so carefully

for the acquisition of intelligence, that no action of good or bad men was concealed from him. No one could stir without his knowledge, and whatever happened in the houses of nobles, great men and officials, was communicated to the Sultan by his reporters

The system of reporting went to such a length that nobles dared not speak aloud even in the largest palaces, and if they had anything to say they communicated by signs. In their own houses, night and day, dread of the reports of the spies made them tremble

The transactions in the bazars, the buying and selling, and the baigains made, were all reported to the Sultan by his spies, and were all kept under Thirdly, he prohibited wine drinking and wine selling, and also the use of intoxicating drugs Dicing also was forbidden Fourthly, the Sultan gave commands that noblemen and great men should not visit each other's houses, or give feasts They were forbidden to form or hold meetings alliances without consent from the throne, and they were also prohibited from allowing people to resort No stranger was admitted into a to their houses nobleman's house Feasting and hospitality fell quite into disuse" These regulations involved a tyranny more galling than that of the most juthless Roman emperor or the most autocratic Russian czar, in that they interfered more grievously with the liberties of the individual under his own domestic roof than any other edicts of which history bears record They were sup plemented by a series of provisions specially applic able to Hindus, and amounting to persecution Hindu, rich and poor alike, was ground down by the wheel of taxation into beggaiy, and was deliberately deprived not only of the luxuries, but frequently of the necessaries of life A Mohammedan kazı oı judge, consulted by Ala ud din on the subject of his govern ment, declared these edicts, particularly those relating to Mohammedans, to be illegal Still the Sultan defied

the law and persisted in his ie pression When in 1303 a renewed Mongol invasion necessitated a thorough reorganization of the royal forces, Ala ud din

tiled experiments in political economy. Being without sufficient treasure to keep on foot a large standing army at high pay, he limited the price of food by loyal edict. By a systematic control of markets the price of grain was cheapened. Quantities of corn were stored up in the royal granaries, and in

the event of famine it was distributed to the people at the fixed price. To sell at enhanced prices was an offence met by the

severest punishments, but there is no doubt that the king's settlement was successful. A strong and contented aimy was kept on foot, and further Mongol attempts were so crushed that India enjoyed security from invasion for many a year and "the trots carried on their agriculture in peace"

Alr ud din was now at the zenith of his power He resumed his plans for the conquest of the Deccan, and from 1308 to 1311 scored a number of important successes Rama Deva, the Yadava ruler of Deogiri.

who had been conquered fifteen years before, had re asserted his independence. He was again sub dued and left in the position of

n tilbuthly prince. The same fate overtook the Rija of Waringal in the Telingana country, and an expedition directed to the Malabar coast penetrated as far south as Mysore and brought home quantities of plunder. Ala ud din had penetrated further into the Deccan than any of his Moslam predecessors, but Mohammed Tughlak, who shortly afterwards reigned in Delhi, enjoyed a wider Indian empire. The later years of the Sultan were embittered by the growth of a fatal dropsy and by the misbehaviour

of his sons He became in fatuated with an unworthy favourite, Mahk Kafur, which bred a deadly feud between Kafur

and the royal family Slaves and worthless people took the place of the wise and able administrators who had served the throne so faithfully Kafui is not incredibly asserted to have hastened the death of his

Mubarak Shah,
1316 1320

master, but the proscription of
the loyal family which he entered
upon to secure his power only
had for its end his own murder,

and the throne passed to Mubarak Shah, a profligate and easy going son of the late Sultan, seventeen years of age. All the wise enactments together with the undue exactions of the late reign were immediately reversed the Hindus regained their liberty and every one did as it pleased him. The king shamelessly abandoned all religion' and all morality, and became the tool of a vile Hindu favourite, styled Khusru Khan, a pariah from Gujerat. Rebellions were punished with the most brutal cruelty and finally Khusru Khan murdered his master and ascended the throne as Nasir ud din II.

The reign of terror which followed is urexampled even in the history of the East "The hærem of the Sultan was bru tally ravished, everyone worth killing, was killed in the palace, three days after the murder of his sovereign Khusru took to wife the

^{*} Mediæval India (The Story of the Nations) S. Lane Poole See also Barni in Elliot's History, Vol. III, pp. 222 5

anticipated

queen of his victim, a Hindu princess to whom such an alliance was an unspeakable profunction, the wives and daughters of the 101 il family and of the great nobles were delivered over to the seum of Khusin's parialis, the flames of bloodshed and brutality reddened the sky, the holy Koran was descerated, idols were set up in the mosques. This tyranny, equally louth some to Mohammedans and Hindus, was ended after four months by the one man in the kingdom who enjoyed universal esteem. Ghazi Beg Tughlik, who had held the frontiers against the Mongols with unvirying success, put himself it the head of the old nobility, overthrew the contemptible upstirt in deteience to the general invitation mounted the throne as king under the nam of Ghias ud din

The Turkish house of Tughlak ruled at Dellii for nearly a hundred years proved a just and v gorous king The Tughlak dynasty 1321 1414 Order was quickly restored, rebellions in Bengal and the Deccan

were crushed, peace and prosper ty reigned once more Already old at his accession the in Hindustan accidental death of the Sultan in

1325 only slightly Ghirs ud din Tughlak 1321 1325

his fate. He was succeeded by his son, Prince Jauna, who, under the name of the Sultan Mohammed ibn Tughlak, was the remarkable figure of the dynasty We cannot improve upon Elphinstone's summary of his character "It is admitted on all hands that he was the most eloquent and accomplished prince of his age letters, both in Aiabic and Persian, were admired for then elegance, long after he had ceased to reign His memory was extraordinary, and besides a thorough knowledge of logic, and the philosophy of the Greeks,

he was much attached to mathe matics, and to physical science, and used, himself, to attend sick Mohammed Tughlak, matics, and to 1325 1350

persons, for the purpose of watching the symptoms of any extraordinary disease. He was regular in his devotions, abstained from wine, and con formed in his private life to all the moral precepts of his religion. In war he was distinguished for his gallantry and personal activity, so that his contemporaries were justified in esteeming him as one of the wonders of the Yet the whole of these splendid talents and accomplishments were given to him in vain they were accompanied by a perversion of judgment which, after every allowance for the intoxication of absolute power, leaves us in doubt whether he was not affected by some degree of insanity His whole life was spent in pursuing visionary schemes by means equally irrational and with a total disregard of the sufferings which they occasioned to his subjects, and its results were more calamitous than those of any other Indian reign "* Though mentally Ala ud din, the greatest Sultan of the preceding dynasty, cannot bear comparison with Mohammed Tughlak, yet his rough and ready methods were more successful than the idealistic schemes of this man of genius Tughlak was too clever for his age above all he was too impatient The clash between a reforming spirit and a dull national conservatism finds an excellent parallel in Joseph II of Austria most remarkable of the enlightened Lurope in despots of the 18th century. The projects which operated to the run of the country and the decay of the people, are catalogued by Barm as (1) Increase in the assessments of the Doah whereby cultivation was arrested, famine arose and loyal people

became rebels (2) The transference of the cap tal from Delhi to the His mistaken projects more central Deograpow renamed

The whole population of Delhi were Duhtibid ordered to remove themselves 700 miles to their new quarters. Dellu was left deserted and fell into decay, nor was the scheme successful. The unfortunate people were ordered to trek back to their original homes, but few survived to return (3) The experi ment of a copper token currency. Copper tankas were issued to pass it the value of the contem portry sher tanks, the object being to enrich the country by the mercise of the currency. But the new tokens were forged by private individuals on all sides and soon ceased to represent the actual credit of "When trade was interrupted on every the treasury side, and when the copper tankas had become more worthless than clods, the Sultan repealed his edict, and in great wrath he proclaimed that whoever pos sessed copper coms should bring them to the treasury and receive the old ones in exchange" Mountains of copper coins poured into the treasury, and wonder ful to relate the run on the reserve seems to have been met somehow or other, so that accidentally the people were chriched. Still the experiment had increased the distrust which the Sultan's methods of government in (4) The fourth project which diminished his treasure, and so brought distress upon the country, was his design of conquering Khorasan and Irak The coveted countries were not acquired, but those which he possessed were lost, and his treasure, which is the true source of political power, was expended (5) As if the project of conquering Persia were too small, Mohammed dreamt of invading China, and in the preparation of a great armament to effect an impossible task poured out his money like water. The drain in the treasure necessitated fresh taxation, and an oppressive fiscal sys tem inspired revolt. The taxes were not paid, and the Sultan, irritated beyond endurance, hunted the Hindus

like wild beasts Boundless produ Drain on the gality was another source of evil treasury The treasury was drained of wealth to keep up an undue magnificence at court, and dis tinguished strangers were loaded with gifts in lands and money Thus Ibn Batuta, the Arab traveller, on arrival at Delhi, was

taken into favour, given fiels and cash, appointed to a judgeship and finally sent as the Sultan's ambassador to Throughout the reign insurrection sprang up on all sides with Hydra-like persistency. As soon as one was quelled, another took its place. The Sultan, disgusted with the failure of his disinterested plans for

the just government of his people, Generosity and cruelty of the Sultan displayed the greatest ciuelty 'The more the people resist, the more I inflict chastisement' Some were trodden under foot of

elephants, and carved in pieces by the iron blades fast-

^{*} Elphinstone History of India (Ed Cowell), p 404

ened to the animal's tusks. A nephew of the Sultan, suspected of treason, was flayed and roasted alive, and his cooked flesh sent to his family, an act exactly parallel to that accredited by Greek tragedy to Atreus. It is these contradictions between acts of extravagant gene rosity and others of incredible cruelty which are so striking. The contrasts in Tughlak's character are worthy of treatment by a Shakespeare. He was not blind to the evil which was rampant, but tried to mitigate the public distress by remission of taxation in some cases, by open justice dispensed by his own royal hand, by free distribution of food and of agricultural loans.

These were, however, experiments tried too late, mostly in 1341, the mischief was already done and dis integration had set in Bengal was lost to the Empire in 1339, the Deccan shortly afterwards, and when the Sultan died in 1350 the revolts in Oudh, Malwa, Gujerat

and Sindh had not been suppressed

Mohammed Tughlak had ruled over a larger and more splendid Empire than any of his predecessors. His father had recovered the distant provinces, and the reputation of Mohammed had given him in the early vears of his reign an authority unprecedented in Mohammedan India. But his misdirected genius resulted in the ruin of this magnificent empire. As a ruler he was a transcendent failure, though as a chilacter he inspires perennial interest.

He was succeeded by a cousin, Firoz Shah, already man of middle age. The history of the reign written a man of middle age by a contemporary, Shams i Siraj Afif, though some allowance must be made for the Firoz Shah, 1351 1388 spirit of eulogium customary at the court, supplies clear proof of the excellence of Firoz Shah, his virtues and munificence, his benevo lence and the extreme affection in which he was held The work is also valuable for the interest it displays in administrative details, and the evidence it accu mulates as to the condition of India under Mohamme dan rule Firoz Shah was no great conqueror, but a good and far seeing ruler He arrested for a time fur ther disintegration in the empire, though he made no very great effort to retain the revolted provinces The Deccan was allowed to remain independent under the Bahmani dynasty, and two half hearted expedit ons to Bengal did not suffice to reconvert the king of that country into a viceroy subordinate to Delhi Firoz, however, gained some military glory in Sindh, after protracted operations against a rebellious native chief, "The Jam," and reduced the Rai of Nagarkhot, who held the hilly country of Kangra Still the limits of the Em pire were more restricted than they had been fifty years before, and it is regrettable that more provinces and

Benevolently governs a more limited Empire good government of this model Sultan Firoz assuiged the wounds inflicted by the mad schemes of his predecessor and reversed Mohammed Tughlak's policy in every particular. The victims of the latter's ferocity or their representatives were indemnified Demands in excess of the regular government dues were rigidly forbidden "Such rules were made that the ryots grew rich, and were satisfied Their homes were replete with grain, property, houses and furniture, everyone had plenty of gold and

silver, no woman was without her ornaments, and no house was wanting in excellent beds and couches Wealth abounded and comforts were general. The whole realm of Delhi was blessed with the bounties of the Almighty''* The Sultan strove hard to increase the productivity of his realm by public works of utility Canals, dams, reservoirs, bridges, monasteries, colleges

and inns for travellers were scattered Public works profusely over the land The great Jumna canal built by Firoz still supplies a large area with irrigation and brings water to Delhi The people were able to reap two harvests instead of one lands were reclaimed Twelve hundred market gardens were laid out, and the proceeds helped to swell the annual budget, of which a considerable share was expended in poor relief, in ministrations to the sick and donations to pious objects. The Sultan was also an enthusiastic builder. He renamed old cities and founded new ones Amongst his foundations was Firozabad on the Jumna, ten miles from Delhi, which became the favourite royal seat The Sultan's building operations supplied thousands with work, and there were no unemployed labourers in the kingdom Firoz was especially fortunate in his great vazir Khan i Jahan (Lord of the World), a converted Hindu of good family, who had reached high office in the last reign Until his death in 1371, the vazir remained faithful to his master, and he must receive a fair share of credit for the blessings conferred upon the people during this The Hindus at this time received fair treatment,

provided they paid the Jiziya or poll tax and refrained from the Treatment of Hindus public worship of idols It is inter esting to note that hitherto the Biahmans had been excused from payment of the Izziva But in accordance with the advice of the learned lawyers, Firoz ordered them to be taxed at a moderate rate Though addicted to the wine cup, the Sultan lived a holy and healthy life, free from vice, giving himself up to administration and the chase and devoutly partaking in all the public prayers of Islam The only mistake which can be reasonably attributed to him is the accumulation at Delhi of hosts of slaves, who were destined to become a rebellious element in the state, and the settlement of too large jagirs on his followers, a policy which tend ed to make the noblemen too iich and independent Firoz died in 1388, worn out with years, but universally venerated by his people He left behind him a brief summary of the ies gestae of his reign in which he

The memoirs of Firor Shah modestly relates his efforts to restore good government under 'the help and guidance of the Almighty' Among the interesting facts here mentioned and not alluded to by Afif is the voluntary adoption of Islam by great numbers of Hindus, in order to be exonerated from the Jiziva

III -Dissolution of the Empire

The multiplication of slaves and the accumulation of great fiefs in the hands of courtiers bore fruit in the next generation. During the twenty four years which followed the death of Firoz Shah, six of his sons and

^{*} Afif s Tarikh Elliot, Vol III, p 290

grandsons sat upon the throne, and witnessed the dismemberment of the Empire. The governors of provences declared themselves independent and established hereditary dismissions. Oudh, Malwa and Gujer it. At the same time there took place a marked Hindu revival. The old Hindu rajas and the hill tribes regained their independence. When the Savvids replaced the Tughlaks at Delhi in 1414, the se called kingdom had shrunk to a small area round the capital, little more, indeed, than the Doah and Rohtak. The hardy Turks and

Afghans had yielded to luxury and the enervation of the climate Morcover, they had lost their distinguishing traits and the prestige of a conquering race by inter marriage with Hindus and by the admission of numbers of Hindu converts into their fold. Another movement there was which contributed to shatter the power of Delhi. The Mongol attacks, lately remitted for a time, were now renewed by the great conqueror Timur, who with his Tartar horsemen descended like a scourge upon the plans of Hindustan in 1398. Timur had already conquered all the west and centre of Asia, when he was attracted

to India by its reputed wealth Invasion of Timur, his memoirs, whose genuinchess is beyond dispute, he says "My great officers told me that the inhabitants of Hindustan were infidels and unbelievers. In obedience to the order of Almighty God I determined on an expedition against Desire of plunder and religious motives together prompted the expedition Timur pretended zeal for Islam, and yet the Mohammedan princes of India suffered equally with the Hindus from his devastating raid. The Punjab was rapidly overrun amid massacre and plundering, and fimur arrived before the capital where the Indian army of the Delhi Sultan was prepared for a decisive contest Indians, despite their courage and their elephants were outnumbered and outgeneralled, and the con queror gave thanks to God with tears Infamous as Timur was for tolerating, even ordering, the most brutal massacies, the Moslem Uiema strove to arrange a ransom for the lives of the people The proposition was accepted, yet whether owing to the Mogul's perfidy or the insubordination of his troops, slaughter and pillage began in the streets of Delhi,* and for several days the city was turned into a shambles After a series of feasts and functions the Tartar horde left Delhi with immense spoils and cairied on a 'Holy war' against the infidels The valley of the Ganges was turned into a waste as far as Hardwar, after which Timur felt that his mission was accomplished, and "quitted India, leaving anarchy, famine, and pestilence behind him." The 'conquest' had only been a plundering raid, like those of Mahmoud or Jenghiz Khan, though far more terrible But it dealt another blow at the crumbling Delhi empire, and that is its chief importance in Indian history Thenceforward, until the days of

the Mogul empire, Delhi never regained her old ascen

The last Lughlak Sultan died in 1412, and for

two years the Government was conducted by Doulat Khan I odi, who made no pretensions The Styyids at Delhi to the royal dignity. In 1414 he wis 1111 1151 expelled by Khisr Khan, a Sayyid or descendant of the prophet. Khisr and three specessors reigned it Delhi over i variable but ilways minute kingdom until 1451, fighting yearly compaigns against the raj is and Mohimmedan chiefs who now encircled the life cipital of the Indian empire Anarchy and assissination at home there also were, and a powerful Mgh in family, the Lodis, who had suffered from the jealousy of the Savyids, at last succeeded in supplant ing them on the throne of Delhi in the person of Bahlol Lodi in 1451

Before pursuing the fortunes of the Lodi Sultan, which again elevated Delhi to a position of some supremacy in the north, we must briefly notice the new states which had arisen on the break up of the empire at the end of the 14th century. Besides Bengal and

the Decem over which the Delhi empire lost all control during the reign of Mohammed Tughlak, three great hels of the empire were convert-

three great fiels of the empire were converted into independent and important kingdoms just before or after Timur's invasion. Thus in 1394 the governor of the province now

Moslem kingdom of Junpur, 1391 and founded the Sharqi or Eastern dynasty, which included six mem-

Jumpur verty founded by Piroz Shah on the Gumti, became the capital of these kings, and gave its name to the new state. For nearly a century the Sharqi dynasty enjoyed considerable power, and the third of the line, Ibrahim Shah, who reigned from 1401 to 1440, was an energetic and enlightened prince, who left behind him some fine specimens of architecture, such as the Itala Mosque at Jaunpur He could probably have mounted the throne of Delhi had he chosen, but content ed himself with ruling his own superior dominions, and ictually illied himself by marriage with the Sayyids Ibr ihm's grandson greatly extended the frontiers, and even conducted a conquering raid into Orissa when he tried conclusions with the new Lodi Sultan at Delhi, he was decisively defeated, and the kingdom of Jaunpur was reannexed to Delhi in 1477 There now no longer existed a buffer state between Delhi and Bengal

In 1401 the Governor of Malwa, or at least of a part of the district known as Malwa, made himself

Moskin kingdom of Strongly Rajput province with some success. He was a descendant of the Ghoris, but his grandson was

assassinated and succeeded by a Khilji, who raised the kingdom of Malwa to a stronger position. In the days of Rajput ascendancy before the coming of Mohammed Ghori to India, the Parmars of Malwa had been constantly occupied in wars of self-preservation against the rival states around. Now, after a century of subjection to the Delhi empire, the kingdom of Malwa under a Moslem ruler underwent the same vicissitudes. There was strife with Delhi and Jaunpur, strife with the Deccan Sultans, and unending strife with the persistent Rajput Ranas of Chitor. Finally, Malwa

^{*}iCf with the state of affairs at Nadir Shah's occupation of Dolhi in 1739

was seized by Bahadur Shah, a great king of Gujerat, in 1531

Gujerat, including Kathiawar, girt in by deserts and mountains, had successfully resisted the arms of Ghori

And the slave kings of Delhi, and, like Malwa, had only been defin itely annexed to the empire by the conquering might of Ala ud din

From the empire it broke away again about the same time as Malwa and Jaunpur, and in a similar way Zafar Khan, who enjoyed the fiel of Gujerat, assumed independence in 1396, and founded a Moslem dynasty which ruled the kingdom until Akbar annexed it to the Mogul empire in 1572 Wars with Malwa and Khandesh, with the Deccan kings of the Bahmani dynasty and the pirates of the Malabar Coast occupied much of the energy of these Gujerat The second of the line founded Ahmednagar and Ahmedabad, the latter of which became the cap tal of Gujerat, and was adorned with mosques and tombs so many and beautiful as to earn for it the title 'Queen of the West' The Gujerat coast towns had from the earliest times conducted most of the sea-borne Indian trade, and it was this trade that attracted the Portuguese soon after Vasco de Gama's famous discovery of the Cape route to India in 1498 The Mamluk Sultans of Egypt, as also the Vene tians, had an interest in keeping out the new comers But after an initial defeat, the Portuguese admiral, Almeida, overcame the combined fleet of Egypt and Gujerat off Diu in 1509 Mahomed Shah, greatest of the kings of Gujerat, conciliated the earliest of the European settlers by offering them the port of Diu The conquest of Goa by Albuquerque took place about the same time With the annexation of Malwa in 1531, the kingdom of Gujerat reached its greatest Its fall in 1572 was rendered inevitable by extent internal factions and intrigues

On the Southern border of Gujerat, but separated by almost impenetrable forests, lay Moslem kingdom of the small and unimportant kingdom Knandesh, of Khandesh It formed the lower 1399 1599 part of the valley of the Tapti, and was ruled by a Moslem dynasty from 1399 to 1599, the founder having, like the founders of the states just mentioned, thrown off his allegiance to Delhi in the troublous times subsequent upon the death of Firoz Shah This kingdom did not figure greatly in the history of the time it seems to have enjoyed great prosperity, and to have been in some sort of subordina tion to the Sultans of Gujerat, whose protection was

Of no greater importance than Khandesh, and even less interesting from the history connected with them, were the independent kingdoms set up about this time in Sindh and the Punjab. There were besides a host of Rajput chres whose greatness belongs to the pre Mohammedan times, but who with the decline of Delhi asserted themselves in their new homes, chiefly in Raj-

Rajput States putana, and achieved an independ ence which the Moguls in many cases so respected, that they have survived up to the present day Such were the Rajputs of Chitor (now Udaipur), Jodhpur (Marwar), Bikanir and Jesalmir

Bengal had, like the Deccan, been independent of Delhi since the days of Mohammed

Moslem dynastics in Bengal Tughlak At first rival kings reign ed in Eastern and Western Bengal, but both portions were united in

1352 under a dynasty which reigned almost continuously until 1487 Lakhnauti, or Gaur, was latterly, as it had been originally, the capital of the Moslem rulers of Bengal Four other Afghan or Turki dynasties filled up the century intervening between 1487 and Akbar's conquest of Bengal in 1576 Little is known of these rulers, but their sway seems to have been very exten sive and to have included part of Behar, as well as Chittagong and, latterly, Orissa

Mohammed Tughlak was the last king of Delhi in this period to hold authority south of the Vindhyas With his failure to hold the Deccan the old Hindu kingdoms revived, and a new Moslem kingdom was

founded The kingdom of Warangal or Telingana, which roughly corresponded to the old Andhra dominion,

raised its head, but the new State of Vijayanagar, founded in the place of the old kingdom of Karnatika which, like the other dynasties of the South, had suc cumbed to the Mohammedans in 1310, now became the

paramount power in the peninsula The Bihmani kingdom proper The new State was ruled and Vijayanagar by an offshoot from the Warangal dynasty it extended from sea to sea south of the river Krishna Further to the north Hasan Gangu, an Afghan or Pars an, succeeded in making himself king of the Deccan, and founded what is known as the Bah manı dynasty The realm under his sway roughly cor responded to the Nizam's dominions of to day together with the portion of the Bombay Presidency south of the Tapti, but at first exclusive of the Konkan extended from Berar on the north to the Krishna on the Hasan Gangu was assisted in the establishment south of his kingdom by the neighbouring Hindu rajas of the But when they had served his purpose, he south turned against them Warangal was soon subdued and seems to have been permanently subordinated to the Bahmanids, though not quite extinguished Vijaya nagar was involved in ceaseless wars with its Moslem neighbour, and in spite of its vast resources was almost consistently beaten and forced to pay tribute. The Hindu rajas had only helped to throw off the slightly felt yoke of Delhi in order to strengthen the enemies at their gates The Moslem Sultans of Kuiburga-Hasan Gangu's capital—besides being at strife with the r Hindu rivals in the south, were not seldom em broiled with the Moslem kings of Malwa and Gujerat The latter, like the Delhi emperor's from whom they

had broken off, were Sunnis, whereas Hasan Gangu and the majority of his descendants were of the Shiah persuasion. The and Shiahs at this time were not dissimilar from those which armed Catholics and Protestants against each other in the religious wars of Europe. The Shiah movement approximated more nearly to Brahmanism than Sunnism ever did, and the Moslems of the Deccan were far more influenced by Hinduism than the Moslems of the north.

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doubtless of great value

a far greater portion of the population under the Bah mani kings than under the emperois of Delhi, hence the treatment meted out to them was more favour A tolerant spirit was abroad we find even reg ments of Moslems taking service under the Rajas of Vijayanagar against the Moslem Sultans of the Deccan The secular struggle waged between the kings of the Deccan and of Vijayanagar was then mainly of polit ical import The Hindu rajas strove to possess them selves of the fertile Doab of Raichur, the Moslem Sul tans as firmly resisted these attempts. The history of the Bahmanids is redolent of crime and slaughter indiscriminate massacre, the dagger and the poison cup are all too common Several Sultans were absolute butchers, others weltered in vice or drowned The two most notable Sultans themselves in drink were Mohammed I, who distinguished himself by suc cessful operations against Vijayanagai, and Fioz Shah, whose religion was woman, but who eagerly studied literature and science The first was the son of Hasan Gangu, the second began to reign in 1397 and mairied the daughter of Deva Rai of Vijayanagai The king dom finally broke up from internal causes governors of the provinces broke out into rebellion, and established independent kingdoms, whose fortunes we

Break up of their Limpire, 1526

Their dominions were divided among the Adil Shiahs of Bijapur (1489 1686), the Kutb Shiahs of Golkonda (1512 1687), the Barid Shiahs of Bidai (1492 circ 1609), the Nizam Shiahs of Ahmedinagar (1490 1595) and the Imad Shiahs of Berai (1484 1572) The dates of their extinction mark their subjection to the Mogul empire, a process which was not concluded until the time of Aurangzeb Of all these kingdoms that of Bijapur was the most powerful, and by reason of it-dealings with the Portuguese, the most interesting

The kingdom of Vijayanagar has a history of its own, but its main interest lies in the relationship with the Bahmanid kingdom, the constant and futile wars which exhausted the strength of successive rajas Krishna and Deva Rai were the greatest of these sovereigns, and Deva Rai, a contemporary of Firoz Shah Bahmani was the only raja of Vijayanagai who scored

The rajas of Vijaya and decisive success against his Moslem neighbour. A certain Abdur Razzak was sent by a successor of Timur as ambassador to Vijayanagar, and subsequently wrote an interesting account of his visit and the state of that kingdom in the middle of the 15th century. The realm seems to have been prosperous and well populated it abounded in temples and was guarded by eleven lacs of men and more than 1,000 elephants. "The city of Vijayanagar is such that eye has not seen nor ear heard of any place resembling it upon the whole earth." It had seven fortified walls, one within the other, and in the very heart of the city was situated a magnificent royal palace where many rivulets flowed through

channels of cut stone

The dismeinberment of the Bahmani kingdom up set the balance of power in the peninsula

The great

Hindu kingdom became more formidable and at last gained possession of the Doab of Raich in The Sultans of Bijapui were pleased to obtain the assistance of Ram Rai, the last raja of Vijayanagar, against the Moslem Sultan of Ahmednagar But the overbearing inso lence of Ram Rai at length banded together all the Moslems against him. The divided Sultans forgot their quarrels and coalesced against the enemy of their faith, with the result that the Hindus were defeated in the

great battle of Talkot, and the Hindu Empire of the south was shattered. But the Mohammedan confederates, divided by jealousies, were unable to annex much of the conquered kingdom. The rest of the territory remained in the hands of petty. Hindu chiefs, some of whom the still to be truced in the poligars of the Madras Pies dency, and others such as the Rajahs of Cochin and Travancoic obtained a more considerable independent power. The greater part of Vijavanagar, however, is now covered by the Madras Pie dency and the native state of Mysore

IV—The Character of Mohammedan Rule in the Afghan Period

The spread of Mohammedan rule and cavilization over India bears some slight analogy to the earlier dissemination of Aryanism over the sub-continent. The Aryan Hindus spread their civilization over India in three stages and during three distinct periods. In the Vedic Age they conquered the Punjab, in the Epic Age they subdued the northern plains—Hindustan pro

Stages of Moham medan conquest per, and in the Rationalist Age they penetrated the Deccan and carried their religion and civilization to the

south Similarly Mahmoud of Ghazni conquered the Punjab, Mohammed Ghori and the Slave kings sub dued Hindustan, and the Khilji dynasty carried their aims victoriously over the Deccan The empire became dismembered, but the formation of inde pendent Mussalman states carried on the steady expansion of Mohammedan power Finally the Moguls came and erected a greater empire as the kings of Magadha had done in the Buddhist period. Akbar crowned the edifice as Asoka had done before him Politically the progress of Islam displays the same unsatisfactory features as we have noticed in the Hindu periods "The history of Mussalman India treats of a consecutive line of Sultans, it betrays the utter insecurity of thrones and dynasties government was spasmodic, good or bad according to

Insecurity of the government under the de potic principle the de potic principle the de potic principle the depotic principle the depotic principle the conduction of the reigning Sultan. The dominion was sometimes expanded by further conquests sometimes it was contracted by in

ternal revolutions" Benevolent rulers alternate with fanatical butchers or vicious debauchees. The security enjoyed under a mild and tolerant sovereign is rudely shattered by a palace intrigue and a blood thirsty assassination. The rise and fall of dynasties, and the lack of stability enjoyed by a despotically governed state is thus exemplified by the Mussalman and the ancient Hindu rulers of India alike. But if anything the Mussalman was a more typically oriental despot, more cruel and oppressive than his Hindu prototypes

^{*} Eliots History, Vol IV, p 110

The explanation can doubtless be found in the fact that he was a foreigner in the land dependent chiefly for his position on military force. Moreover, he was the representative of a militant religion, severely antagonistic to the religions of the country. Still, Mohammedan rule in the three centuries before the Mogul empire was established was not without its saving graces. Oppresson, intolerance and cruelty may have been the usual

The masses on the whole free from oppression characteristics of the Bahmanid Sultans, but a number of mild, toler ant and capable sovereigns sat upon the throne of Delhi Even an

oppressor like Ala ud din did much for the country's security and prosperity, and Mohammed Tughlak, for all h s failure, was animated by the right motives Moreover, the Afghan rulers did not as a rule disturb the internal administrative arrangements of the people continued to live under their anciently constituted authorities, whether hereditary landlords (zemindars) or the communistic village system were less harassed by wars than their brother peasantry "Dynasties suc in Europe during feudal times ceeded dynasties, wars swept by the fenced and defended villages, but the agriculturists continued their useful labour from century to century, little caring who sat on the throne of Delhi, or on the provincial masmid The foll es and crimes of kings, which fill so large a space in histories did not generally touch the well being of the masses, wars and dissensions among rival chiefs generally left them at peace, and acts of oppression affecting the agricultural population were not frequent because they were not conducte to the interests of the rulers them selves '' The laids of Mahmoud no doubt brought the 1) ots to the verge of destitution as did the invasion of Imm, four centuries later, but when once the Mohamme dans had settled in the country, they had little to gain and everything to lose by plundering their subjects. Even during the actual conquest it was the rich shrines of Hindu gods 1 ather than the mass of the persantry who suffered from the greed of the conquerors While few of the Delhi emperors were actively destructive of the people's well being, several were zealous promoters of

the national prosperity. The canals and public works of Firoz Shah Tughlak cannot but have increased the productivity of the country, and the economical experiments of Ala ud din Khilji, we are told, ensured a sufficient livelihood to all and sundry. The general prosperity of the country and the magnificence of the cities is also borne out by the accounts of forcign travellers, Nicolo Cont. the Venetian and Abdur. Raz zak the Tartar

Nor was the social and religious system of the Hin dus unduly interfered with Although Islam gained a firm footing in the country, and mosques were erected

Persistence of Hinduism of despised as an idolater, was not, with rare exceptions, converted by force. After the first massacres, dictated by the fanaticism of the conquerors, were over, the Hindu was given the option of adopting Islam or paying the nizina, a poll tax levied on the males. Numbers no doubt preferred the first alternative, particularly where, as in the lower castes, to enter the single caste of Islam.

meant exemption from the contempt and social degrad ation meted out by Brahmans to Sudias. The social system of Puranik Hinduism had ganted a monoply of power to the highest hereditary castes. But even a Sudra or a Pariah might hope by adopting Islam to rise in accordance with his merits. Some such did rise to the highest pinnacles of power and became vazirs under the Delhi kings. The majority of Hindus, however, retained their religion and their social system at the expense of the piziya, and were but little molested. Hinduism, of course, sark to a subordinate position, and Sanskrit learning died a natural death. Still the period was not without native religion and their social system.

Religious movements gious movements Several great Vishnava reformers flourished at this time, and the movement, though it originated in the independent south, spread even to Bengal and Hindustan Ramanuja, who lived in the Karnatik in the 12th century, was followed by a series of missionary apostles, who proclaimed the existence of one god This faith in popular under the title of Vishnu monotheism was preached by Ramandanda in Hindustan during the 14th century, and by Vidyepati and Chai taniya in Behar and Bengal respectively, during the 15th century It was preached to Mohammedans as well as Hindus, and was perhaps an attempt to combine the essence of the two religions But it appealed pre emi nently to the Hindus and it gave an impetus to the new languages, Hindi and Bengali, which were being evolved from the old Prakrits. To the same age belongs Nanak, who by preaching a monotheistic Hinduism in the Punjab founded the fraternity of Sikhs, at first a peaceful sect, later a valiant and fanatical military power

Literary culture went hand in hand with those religious movements during the age of the Afghan rule A mass of sacred literature and of songs and poems was composed in Hindi and Bengali, but native literature in this period flourished rather in the south, where the glorious Hindu kingdom of Vijayanagar held sway Thus the Tamil language, which had formerly been

Literature
(a) Hindu

the vehicle of the Buddhists and
Jains, was now employed by the
votaries of Siva and Vishnu Sans
krit survived in Vijayanagar, and the brothers Sayana
and Madhava, both ministers at the court of the first
king, wrote, the first, valuable philosophical and specu
lative works, the second, a renowned commentary on
the Vedas

But literature flourished more abundantly at the court of the Delhi Sultans Many (b) Mohammedan of these sovereigns were great patrons of art and learning Almost every reign had its own historian, some even two or three The writings of these men, to be found in Elliot's valuable "History of India as told by its own histori ans," deal mostly with the lives and doings of the kings, but some few touch upon the movements of the time and the conditions of the people Some of the kings themselves compiled memoirs, and others were zealous students of the Koran In matters of art the Mohammedans excelled all predecessors The Kutb Minar is a standing testimony to their artistic culture, the Jama Masjid at Delhi, the Atala Mosque at

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The battle which decided the fate of an empire was fought in the historic plain of Panipat and is graphically described by the victor himself * Sultan Ibrahim Lodi is said to have mustered 100,000 men and roo elephants But Babar was a master in the art of war He posted his forces most carefully, improving the natural position by artificial defences, and protect ing his front by the cannon which his Turks—the best

artillery men of the middle ages-First battle of could be trusted to make full Pampat, 1526 use of A furious attack on the enemy's centre supported by the flank attacks of his Mogul cavalry wedged the Afghan forces together in a contused mass, where fighting was impracticable Ibrahim was killed, his army broke and fled, and Babar was master of the field. He describes Ibrahim as "a young man of no experience, who was negligent in all his movements, marched without order, retired or halted without plan, and engaged in battle without foresight" Agra and Delhi were at once occupied, and the immense spoil of the treasuries fell into the conqueror's hands The generosity of Babar bound his followers to him more closely But he was not yet master of Hindustan The people were hostile, a brother of Ibrahim was in the field, and the Rapputs were arming. The excessive heat, and the lack of grain, caused a murmuring amongst the troops But Babar, like Cesar when threatened with mutiny, by a few timely words put the murmurers to shame. Then at list his elemency

brought over many of the enemies to The Rajput his side. He established his hold Corfederacy over the plans none too soon vast confederacy of Rapputs had now to be met Animated by a strong national spirit, they were led by the formidable Rana Sanga of Chitor, the terror of whose name inspired Babar's soldiers with an almost "There was not a single person who panic fear uttered a manly word, not an individual who uttered a manly opinion " At this crisis Babar, feeling that some act of repentance was called for, renounced winehe had ever been a great drinker—and broke his drink ing cups of gold and silver, the fragments of which were distributed to the poor Next, he called his officers together and addressed them "Noblemen and soldiers! Every man that comes

Battle of Kanwaha, into this world is subject to dissolution How much better it is to die with honour than to live with infamy? Let us, then, with one accord, swear on God's holy word, that none of us will even think of turning his face from this warfare, nor desert from the battle and slaughter that ensues, till his soul is separated from his body' All thereupon seized the Koran, and swore to this The army, its confidence restored, advanced from Sikri (near Agra) until the hosts confronted each other at Kanwaha An irresistible Rajput charge nearly broke down the disciplined defence, but a flank ing Mogul movement combined with an advance of the artillery and household troops brought about a repetition of Panipat The Rajputs were pressed

The Afgh in a resume the offensive but are dispersed 1528

into a disordered crowd, until the chivalry of India broke and fled in every direction Kanwaha shattered the Hindu con federacy as Panipat overthrew the Mohammedan Afghans There was

and there could be no peace until

no more trouble with the Rapputs But the Afghans had seized the occasion of Babar's pre occupation to resume the offensive in the neighbourhood of Kanout skilfully crossed the Ganges in the teeth of a hostile torce, broke and dispersed the Afghan army, and returned to enjoy a little well-earned repose at Agra But it was not for long Mahmoud Lodi, the brother of the ill fated Ibrahim, collected a vast army with the hope of an Afghan restoration Jaunpur (Oudh) and Behar declared for him When, however, Babar led out his army early in 1529, the forces of the Afghans melted away Behar was easily overrun and Mahmoud sought protection in Bengal A hostile nimy massed itself upon the frontiers of that province,

I in it suppression of the Afghans 1520

the rebels were completely shatter So Babar forced the passage of ed the Gogra in the teeth of the Bengalis "The move ment was brilliantly carried out in the face of a deter mined resistance Attacked in front and real and flank. the enemy broke and fled Good generalship had once more guided valour to victory. The result was the more guided valour to victory. The result was the collapse of the Afghan rebellion, and the conclusion of a treaty of peace with Bengal. In three battles. Babar had reduced northern India to submission "* The rest of Babar's all too short life-a year and a halfwas mainly devoted to administration. But no new principles of administration were yet evolved fief system was retained, and that spelt anarchy as soon as ever a weak emperor should mount the throne It was reserved for Akbar to consolidate on new and listing basis the empire his grandfather had

conquered by the sword Babar died in his palace at Agra in December 1530, worn out Death of Babar, with the exertions of a career 1530 adventurous beyond example He

had not spared himself. Even to the end when consumed by fever he evinced extraordinary vigour. He could swim the Ganges in thirty six strokes, he often rode eighty miles a day. It is interesting to know that he hankered after his mountain home in Afghanistan, a sentiment which, as noticed before, precluded Mah moud of Ghazni from attempting any permanent con quest of India "Hindustan," he says "is a country that has few pleasures to accommend at The people are not handsome They have no idea of the charms of friendly society, of frinkly mixing together, or of familiai intercourse, they have no genius, no com prehension of mind, no politeness of manner, no kindness or fellow feeling, no ingenuity or mechanical invention in planning or executing their handicraft works, no skill or knowledge in design or architecture, they have no good horses, no good flesh, no grapes or musk melons, no good fruits, no ice or cold water, no good food or bread in their bazaars, no baths or colleges, no candles, no torches, not a candlestick " But it is to be remembered that he was only acquainted

^{*} For full details of the operations before and afterwards see Erskine's orate "History of Babur and Humayun This work may be regarded elaborate "History of Babar and Humayun This work may be as a final authority on the reigns of the first two Mogul Emperors

^{*} Lane Poole's Babar in Rulers of India series

with a small part of the country, and that that part had been scourged with was and rebellions for many ever He finds, however, some compensation in the abundance of gold and silver and in the pleasant climate during the rainy season.

The country ruled over by Bab is comprised little more than the Punjab and the modern. United Provinces. Bengal, Malwa and Gujerat were independ

Humayun, too much crushed to renew their efforts under a sovereign less strong than Babar. The natural policy of

Humayun, that Imperor's successor was then, to complete his father swork, just as in an earler age Alamsh and Balban had completed the conquest of the north begun by Mohammed Ghori and Aybek But Humayun though pleasable, affectionate, accomplished and brave, badly lacked character and resolution. He was too light he afted and forgiving, he lacked the necessary sternness and the power of concentrated effort which his father had possessed. Thus he failed to cope with the forces of disaffection and hostility with which he was surrounded

There were three ominous clouds on his horizon when he came to the throne."

His enemies On the north west was his brother horizon, who ruled health and the

Kamran, who ruled Kabul and the Punjab and was ready on every occasion to act the traitor. He held the main recruiting ground of the Mogul irms a fact which largely explains the failures of Humayun On the east were the Afghans in Behar with a member of the deposed I odi disasts it their head. Many Afghans throughout the inherited domin ions of Humayun still held fiels and only awaited their opportunity to join the anti-Mogul movement. On the south was Bahadui Shah, the great Mussalm in Ling of Gujerat,* who had lately innexed Milwa, and was now hard pressing the Ripputs in that neighbourhood There is little doubt that hid Humiyun brought the whole of his strength to bear upon each enemy in turn he must have been successful. But he weakened his chances by vacillation until the grand army left by Babar was depleted by losses and had its confidence Contenting himself with a wholly in destroyed complete success against the Afghans in 1531 hu turned towards Gujerat, and after he had quietly

Conquest of Gujerat and Malwa 1534 witnessed the capture of Chitor by Bahadur Shah, and thereby earned the hatted of the Rajputs, he attacked the army of that Sultan

Through the mistaken tactics of the Gujeratis rather than through superior might Humayun overthrew the foe, pursued the Sultan to the extremity of the content of the conte

tingdom, and the whole realm fell into his hands. But the invader made no effort to keep the prov

inces he had won. The army was allowed to demoralize itself by protracted festivities, and no sooner was the back of Humayun turned to face the Afghan foe than Gujerat and Malwa threw off the Mogul yoke and returned to the allegiance of their lawful sove reign. The Afghans were certainly the more dangerous foe, as a certain Farid of the Sur family who has assumed

the name of Sher Khan (or Sheh), vis organizing with startling ability a powerful anti-Moral movement in the eistern province Ster Shih and the vents before Bab ir had aid to fits African crosenest minister. "Keep in eve on Sher Khan he is a clever man, and the marks of royalty are visible on his forehead I have seen many Afghan nobles greater men, than he but they never made are appression on me, but is soon it I are this man, it entered into my mind that he ought to b arrested for I find in him the qualities of prestness and the marks of mightiness " This creat man had now virtually become the ruler of Behar and was occupied in rip dly reducing all Bengal to his eas. Humayun 'the unfortunate,' having wasted a whole year in merry making at Agra at last proceeded as anost The cast capture of Chun ir fortres this staly art for (1537) induced fils confidence Humatun iri f and whilst Shor Shoh but hims if Length 163

up in the impreenable fort of Robtis. Humavin marched into Pene il where he frittered in its sex precious fronths in sofit seeing and indulgence. Thus he illowed his communications to be cut while Sher Shigh extended his authority as far yes is Kinouj and the brothers of Humavin were starring up mutany in the capital. News of these events at last roused the feel-less Emperor from his torpor, but only to be disastrously defeated.

Buile of Parar by his vigiling for magnest battle 157, near Buxar It was a surprisitticl, and the Mogul army was without difficulty routed, the emperor escaping across the Ganges by the support of a water skin provided by a friendly blash After a veir of feeble preparations on the part of Humayun and vigorous action on the part of Sher Shah the forces gathered for the final conflict opposite the city of Kinony. Sher Shah with apparent chivalry but real strategy allowed the Monals to cross to the north of the Ganges. He awaited them in a strongly entrenched position and the general engagement which followed was hardly for a moment doubtful-Moguls, oppressed by heat and floods, were half heart Before the enemy had let fly in ed and went urrow, sive the historian Haidar Mirza, we were virtually defeat-Buttle of the Ganges

was wounded, friend or for 'A pinic flight to the Ganges involved the emperor in imminent dinger. He was circled over by an elephant, and surrendered to fate, saying that su pernatural beings had been lighting against his soldiers. He fled to Multan and Sindh and disappears from Indian history for fifteen years. But by 1547 he had reconquered kand that and kabul from his brothers and was once more in a position to make a bid for Indian empire when the opportunity should be favourable.

Meanwhile Shei Shah had seized the throne of Delhi and busied himself with the reduction of Hindustan. He appeared to the Afghan Mussalmans of India less of a usurper than the Mogul, and his great talents undoubtedly conceded to him the right

^{*} See p 9 supri

^{*} Abbas Khan, Tarikh i Mei Slihi I lliot IV p 331

to reign. The Punjab, which had not been subject to Humayan, was taken from the treacherous brother of the ill fated monarch. Malwa was conquered the rajas of Marwar and Mewar were subdued. Whilst superintending the siege of Kalinjar, that impregnable fortress which figures in every Indian war of the period, the Sultan was involved in the explosion of a magazine, and expired before his work of reorganization was complete. Still he had accomplished much. Abbas Khan,* the historian, gives a vigorous account of the

His wise adminis tration matters wherein the Sultan was busied day and night. When fortune give into the hands of Shea

Shah the bridle of power and the kingdom of Hind fell under his dominion, he made certain laws both from his own ideas and by extracting them from the works of the learned, for securing relief from tyranny and for the repression of crime and villary for maintaining the prosperity of his realms, the safety of the high ways, and the comfort of merchants and troops?" He attended to all business in his own person and temporal affairs were not unmixed with devotion Day and night were divided into portions for each separate business, for, said he fit behoves the great to be always active. Careful rules

Revenue and other

reforms

revenue, the average share of the government in the crops being fixed at one third. The land was divided into 110,000 fiscal unions, and assessment was to be annual. Courts of justice were appointed in every place. Four important highways were constructed, one of which fully furnished with inns for tray ellers and shaded with trees extended from the Jhelam to the Bay of Bengal. Careful regulations were made for the protection of the roads from thieves and highway robbers. The welfare of the cultivator even in time of war and in hostile countries was scrupulously observed, and the Hindu subjects of Sher Shith were free from oppression. Consequently all the pargains, or vil-

were framed for the collection of the

Consequently all the parganas, or villages, were "prosperous and tranquil, and there was not one place which was contumatious or desolat-

ed, the whole country was settled and happy, corn was cheap, nor during his time was there anywhere scarcity or famine " The chronicler remarks that " in the time of Sher Shah's rule, a decrepit old woman might place a basket full of gold ornaments on her head and go on a journey, and no thief or jobber would come near her, for fear of the punishments which Sher Shah inflicted " Fortunately his administrative reforms did not pass away with his death, but many of the so called original conceptions of Akbar and his ministers were modelled upon them. Hence his efforts have an importance be yond his own life time, a merit absent from the reforms of his greatest predecessors on the Delhi thronc Another great service he rendered to the country was that he reduced the turbulent Afghans to obedience No man dared act in opposition to his regulations, and the exactions of the great fiel holders were checked by the imperial officials in much the same way is the greed of the Roman provincial governor was reduced to impotence by the supervision of the early Cesars

Under the incompetent rule of his successor the ancient rivalries of the Afghans were revived, and Selim's eight years reign was consumed in intrigues and fruitless quarrels. Then followed a period of greater confusion. The young son of Selim was murdered by his uncle, Adil Shah, but the real power of the State passed into the hands of Hemu, a

Add Shih, 1553 1555 low caste Hindu, not without abilities. Such a regime was, however, so repugnant to the proud Afghans that pretenders and rebellions arose both in the Central Provinces and in the Punjab. Humayum who from his kingdom in Afghanistan had been witching his opportunity descended into the plans of India and after two engagements once more seited himself upon the throne

of Delh The disposessed Surfamily gathered together their forces in the Last and were fain to follow the guidance of the despised Hemu. While prepar

the guidance of the despised Hemu. While preparations were being made for the final struggle Huma van pursued now is even by all luck, slipped from the steps of his palace, and died in his forty minth very left to his courthful son

Death, 1kbar to plant the Mogul dynasty firmly in Hindustan

II - Akbar the Magnificent

Akbar was now thirteen years of age Humayun during his wanderings after the Accession of Akbar overthrow in 1540 had fallen in love 1556 with and had married the daughter of a Savad or member of the Prophet's family, and Akbar was born during the retreat icross Sindh in 1542 He was without exception the greatest of the Moguls perhaps the most striking and capable of all the Indian sovereigns up to his time, whether Hindu or Mohammedan It is to be noticed that the sixteenth century was an age of great sovereigns. Amongst the European contemporaries of Akbar were Elizabeth of England, Ivan the Terrible of Russia Soliman the Great of Turkey and Henry IV of France The sixteenth century was also a period of long reigns The emperors Charles V, and Phillip II, of Spain each ruled 40 years Elizabeth 45, Soliman the Great 46, and Ivan the Terrible, 51 In Asia, where long reigns are rarer, Akbar's forty nine years of rule would make him unique amongst Indian emperors of the first rank, did not his great gi indson Aurangzeb hold the sceptie for an identical period Asoka, Akbar's great prototype, was a gaided as enjoying a very lengthy reign, but he cannot have ruled for more than forty or forty one years

During his reign of nearly half a century Akbai had his fill of fighting. Noted as an administrator and a broadminded statesman, he was forced to distinguish himself first as a soldier. At the outset of his reign he possessed only the Punjab and Delhi, and he had to

Al bir the true founder of the Mogul Empire

string Hindustan into subjection and numerous cam paigns ensued during the next twenty years to round off the boundaries of the kingdom

stringgle even to maintain himself on the throne of Delhi Twenty years of severe fighting was needed to numerous cam paigns ensued during the next twenty years to round off the boundaries of the kingdom

The reign was

Second Battle of

thus a perpetual series of efforts towards the expansion of an originally small territory " Thus, while Albir was the true founder and organizer of the empire which Babai had projected his reign only marked the beginning of the golden age of Mogul rule Humayun's death Akbar was engaged with Bair in Khan, his father's faithful companion in exile and a consummate general, in subjugating the Punjab Barram was wisely invested with the Regency Contrary to the despairing advice of the other generals he refused to retreat to Kabul, and urged his mister to make a bid for the empire which Humayun had not lived long enough to consolidate Sik ind ir Sur was left for the moment in the west and the Mogul forces turned to meet Hemu, who meanwhile had with his Afghans seized Agra and

Paniput Ling The armics met on the field of Paniput where Palbur thrity years before had overthrown the Mahan power. The Mogul archers did such execution that the exe of the Hindu leader was pierced, and "the masterless crowd broke up like a heid of stampeded horses. Hemi was captured and despatched by the sword of Barian Delhi opened its gates, and Akbar, the main danger having been successfully met, was planted firmly on the throne. Sikandar, to whose standards the beaten

Delhi and had proclaimed himself

Afglian nobles flocked was tackled in the following year and after an eight months' siege, surrendered his fortress of Mankot and was allowed to retire under parole to Bengal. These successes were mainly the work of Bairam Khan, but though he was ind spensable in a time of warlike clisis, his arbitrary and overbearing character was harmful in the time of peace. He raised up for himself a host of enemies, and above all the powerful foster mother of Akbar, Milham Anaga influenced the emperor's mind against him. It last in the year 1560 Akbai, now in his eighteenth year, assumed the reins of Government. Bairm was order

ed to take a pilgrimage to Mccca, he revolted, was defeated and mag nammously pardoned, but on the eve of embarkation for Arabia was assassinated by an Afghan whose enmity he had provoked. During the next seven years Akbar was confronted with a number of rebellions raised by his own followers. But his forced marches and his crushing blows overcame all oppositions.

marches and his crushing blows of ercame all opposition, and by the end of 1566 peace was established throughout the empire, and the emperor was free to embark on schemes of wider domination. But before southern conquests were to be thought of it was necessary to obtain a firm hold of Rajputana. The turbulence of his Mohammedan followers had already stamulated the native statesmanship of Akbar towards a policy of conclust on

Akbar conciliates the Rajputs In 1562 Raja Bihari Mal, the lord of Amber, had come to pay his homage to the new sovereign He was received with great honour, and the new policy of conciliation vas inaugurated by the mar riage of Akbar to a daughter of the Rajput prince Previous Sultans had taken Hindu women into their harems, but none had treated them with such marked

consideration as Albar. The Prince's of Amber was allowed to retain her own faith, and her relations were given high positions in the imperial start. The Repart of Maiwir (Jodhpur) also became a loyal ervant of the emperor but the proud head of the Raput class, the Rana of Chaor held aloof and made to recret of his hotility. Where cored a hotely track for the way as a six of the start of the cored and the core of the cored and the core of the cored and the cor

Antent es Chiter to employ force. The storm is of Chitor is one of the most picture just epode of the regn. The mights fortre tanding of a colared er a four hundred feet high and eath alme top speads cular sides had ben a thorn in the theh of almost every Mohammed in emperor of Della for recent It had beneather over and over man but is constantly recaptured by the re-olub. Rappats of The present Rang a feeble on of the great Mentar Since whom Babar had overthrown retired hingeli Arrivally hills leaving 80% troops, under the to the famous In Malin command of Chitor. The resolution of Albar and the still of his eachers were at I agth rewarded. Under cover of the cibit a broad covered way in principle to inblant the Roman totalo the besiegers climbed the precipie and overtopp dithe walls Sappers undermined the bastions with gun powder, and a breach was made Albar hims li picked oft with his musket the Hindu buller and the beserers penetrated the town. The partison having according to the falson burned ther families and goods in huge bonfires rushed upon death. Livery step was contested and the streets run blood. The heroism of the defence survives in popular traditions to the present day, and practically all the garrison were annihilated in the deadly struggle. Rantanbhor and Kalinjar, two other famous fortresses were cap tured a few months later, but though Rapputana as a whole acl nowledged the conquerors might and cle mency Udai Singh of Mewar never limself submitted His family alone in intained the ripride and independ ence, and never yielded to what they were pleased to call the indignity of a family alliance with the Mogul emperors of Delhi . This haughty independence how ever was of little profit and the remaining Rajput princes chose the wiser part, for many of them gained distinction by their loy il services in the wars of Akbar and his successors while Jehing r, the heir of Akbar, was hanself the son of a Rapput princess

After two years of peace the anarchy of the Mohammedan kingdom of Gujerat compelled interference. The country was overrun and annexed to the Mogul empire after its two centuries of independence Akbar's during brought his life into danger during this campa go but both his personal deliverance from a difficult position and his ultimate success were largely due to the evertions of the Raja of Amber and his warrior nephew, Man Singh Gujerat fevolted about two years later but never recovered its independence

The next work of importance was the suppression of the adherents of the fallen Sur dynasty in Bengal Had these Afghans kept quiet, they might have retained the eastern provinces, but they falled to realize the uselessness of struggling with the Mogul, and were constantly raiding the territory of the Empire. It was

not until 1575 that Akbar had thoroughly subdued and pacified the north of India. Then it was that he turned his arms against the debauched Afghan king of Bengal,

Daud Khan Akbar conducted the first portion of the war him self and then left Raja Todar Mal, the famous Hindu general and finance minister, to conclude it Behar, of which only a part had formerly acknowledged Akbar, and Bengal were now annexed to the empire, but repeated revolts arose, for Daud Khan, who had been allowed to retire to Orissa, made

And Ons 1, 1550 fiesh efforts to regain the sove reignty Orissa was added to the empty of the east was pacified until 1592, when the last

Afghan rebellion was suppressed

During the last twenty years of his reign, Akbar made several further conquests hands in 1555, the wild mountain tribes of the north west were, not without misdventure, quieted in 1586, Kashmir, where anarchy reigned was annexed in 1587, Sindh and Kandahar were incorporated in the empire in 1592 and 1594 respectively. Now that Hindustan was completely subject to Delhi, Akbar could begin to think of subjugating the Deccan. After the kingdom of Vijavanagar had fallen (1565), the Moslem Sultans amongst whom the

Bahmani dominions were parcelled

out resumed then strife, and the

king of Ahmednagai had at length

Beginning of Mogul conquests in the Dec can, 1595 1600

by the conquest of Berai in 1572 become the most powerful chief south of the Vindhyas But faction and intrigue brought a deserved punishment. In 1595 there were no less than four parties and four rival claimants of the throne As so often happens, party selfishness obliterated all patriotic sentiments. Akbar was invited to intercede in the dynastic quariel But when the Mogul army unived, the danger of the intervention was at length realized, and the rivals combined to resist the invaders. Chand Sultana, a most distinguished and intrepid princess, was appointed regent, and herself directed the defence of the city with such success that the Mogul army withdrew on condition that Berar should be ceded to the Empire (1596) Further quarrels then ensued in the Deccan, the Sultana was murdered and a fresh intervention of the Moguls under Akbai in person took place. But he only suc cceded in permanently annexing the small kingdom of Khandesh and a part of Berai the final overthrow of the Moslem kingdoms of the Deccan was reserved for

The empire of Akbar was hardly larger than that governed two centuries before by the house of Khilji and the early Tughlaks—But it was incomparably more solid and more enduring—The units were more completely conquered, and more firmly knit together—clements, like the Afghan fief holders, making for disunion and dismemberment, were reduced to impotence, and

his descendants during the 17th century

Principles of Akbar's administration the Moslem emperors to place the Hindus on an equality

with their conquerors, and to take them into partner-ship on a large scale. He mairied two princesses of Rajput blood, and one, the Princess of Amber, became the mother of Jehangii. Hindus were among his favour ite courtiers and greatest administrators. Man Singh was one of his most successful generals. The revenue reforms of Akbar were chiefly due to the wisdom and sagacity of Raja Todar Mal, who adopted and improved upon the principles enunciated by Sher Shah. Absolute toleration was conceded to all religions, and the persecuting tendencies of the orthodox

Lalightened policy to Moslems were rigorously repressed wards Hindus Two taxes which fell heavily upon the Hindu population were abolished the duty on pil grimages, which brought in millions of rupees annually and which scriously interfered with what the Hindu regrided as a pious duty, and the jiziya or capitation tax imposed by Mohammedan sovereigns on those of mother faith "There was no tax which caused so much bitterness of feeling on the part of those who had to pay it 101 one which gave so much oppor tunity to the display and exercise of human tyranny The reason why the sovereigns before Akbar failed entirely to gain the sympathies of the children of the soil, might be gathered from the history of the proceedings connected with this tax alone "* The nziva was not only a tax of vicious character, but was especially liable to abuse in the collection. It was the revival by Aurangzeb of this oppressive measure which largely accounts for his ultimate failure While endeavouring to avoid unnecessary interference with the religious opinions of his subjects, Akbar did not scruple to check abuses which seriously restricted their well being Thus he ordained that sati must be a purely volun tary sacrifice, he permitted widow re marriage, and forbade marriage before the age of puberty These abuses had, as we have seen, only crept into the Hindu system gradually in Post Vedic times, and the reforms of Akbar in this connection anticipated the intelligent efforts of the most enlightened Hindus themselves at the present day

The narrowness of the more bigoted and orthodox Mohammedans provoked his indignation no less than the abuses of orthodox Hinduism. The liberal tendencies of the emperor, formed by constant meditation, and encouraged by Faizi and Abul Fazl, the most enlightened of his courtiers, resulted in an attempt to found a universal religion, com

Akbar's comprehensive posed from a variety of different religion sources Heated discussions took place in the loyal palace at Fatehpur Sikri, and learned men of all religions were gathered together to exchange their views before the emperor "To Akbar's open eyes there was truth in all faiths, but no one creed could hold the master key of the infinite He listen ed eagerly to the words of the Christian Fathers, to the Vedanta philosophy of ascetic Yogis he had Sanskiit classics translated for him, and ordered a translation of the Gospels he must have known the Buddhist doctrine and the profound metaphysics of India Islam was too, bounded for his expanding soul The outward symbols went the Moslem

^{*} Akbar, 'Rulers of India' Series Col Malleson

shibboleth vanished from the connect and the imbiguous formula 'Allahu Akbai' 'God is Great' (or a detractors construed it 'Akbai is God') took its place

He found that the rigid Moslems of the Court were always casting in his teeth some authority, a book, a tradition a decision of a canonical divine, and like Henry VIII he resolved to cut the ground from under them he would himself be the head of the church and there should be no pope in India but Akbar''* In accordance with this decision a de cree was promulgated to the effect The Divine Paul that on all matters of fith the emperor's decision should be binding on all Moslems in India Opposition being crushed, the pantheism of the elect,' Taizi, Abul Tizl and other- became the court religion under the name of the Din i Hahi or 'divine futh' It was essentially in effective pain theism, and the sun worship of the Parsis was one of its most notable factors. The Mohammedans remained on the whole hostile. Akbar's heterodoxy formed the pretext of those family dissensions which embittered his last days and the triumph of the pan theists was cut short by his death. But such in attempt at Catholic comprehension in an age when ins real foleration was unknown alike in Asia and Europe is not the least of Akbar's titles to fame

The administrative reforms of the reign demand separate treatment Great chorts were made to purify justice and Akbai insisted that the reign ous element was not to enter into the question before the magistrate or judge. In the eye of the law all men whether Mohammedans or Hindus, Shiahs or Sunnis, were to be treated alike

After the prefication of the north a census was ordered "of all the inhabitants, specifying their names and occupations. This regulation was the means of establishing tranquility and of providing security for the broad expanse of Hindustan" †

Abul Fazl in his great Ain i Akban, which forms the third volume of his Alban nama, gives a complete account of the land revenue system inaugurated by Todai Mal It is well summarized by Keene in his "History of India" "There was Resenue and currency

Resenue and currency to be an accurate record of each landholder's rights and habilities

landholder's rights and habilities Easy means of complaint against undue exactions were provided, with due provision for the punishment of offenders. The number of petty officials was reduced by one half. Advances of money and seed were available, arrears were remitted when remission was required. Collectors were called upon for yearly reports and monthly returns were to be submitted to the exchequer, special narratives being required in case of special calamities, half, flood or drought. The collections were made four times in the year, and care had to be taken that there should be no balances outstanding at the end of that period. It is hardly too much to say that the scheme contained the germs of the successful revenue systems of modern India." Again, "at the same time attention, was paid to the question of

The versatility of M bur was an izin. He exect genus not merely as exted it ell in a tite marship in theology and war but shone conspiction in a new ammor art. He had a taste for mechanical contribution invented a travelling current variety in the lof making

gun burely and amother for el in mg juns. His marksmanship vas uncring. He distriguished him elf in the che-15 (1 5 15 zerlous in hawking. He was a fine polo player and by the use of hie balls even enjoyed the sport at might He frequently indulged in eards and made some after a tions in the rules for playing. He was exceedingly ran sicil and possessed such a knowledge of the six coor music is trained musical and not posses. Lit ells he was a great builder and showed fine teste in a chite ture sculpture and painting. He built the majestic fort it Agra, but the city and palaces of I itelipur Silvi are his greatest irelatectural monument. Here twenty two miles from Agra, he created a capital for himself, and crowned the slopes with a wires of be intiful buildings, which still in semi-rum, affect the greatness of their author. In this criental Versulles the great ruler enjaved to the full his lave of meditation and discussion. The place is full of his memories

there stand the houses of his wives

Whir habits of find of his ministers the indience hall with its pillared throne and galleries the court vid where the emperor played

gillenes the court vird where the empetor plived hing chess with slive girls and the simple bed room where Akbai took his afternoon repose. At night he slept but little, the hours of dirkness and of peace were devoted to discussion and meditation, the morning to work and sport, the afternoon done to rest Akbai ate is little is he slept. While Abul Lazl consumed of food and drink some twenty seers a day, his master was content with a single meal. For months at a time he abstanced from meat but he was much addicted to fruit, and made a careful study of its cultivation. Simple and austere in his personal habits Akbar knew well when and how to be magnificent. The

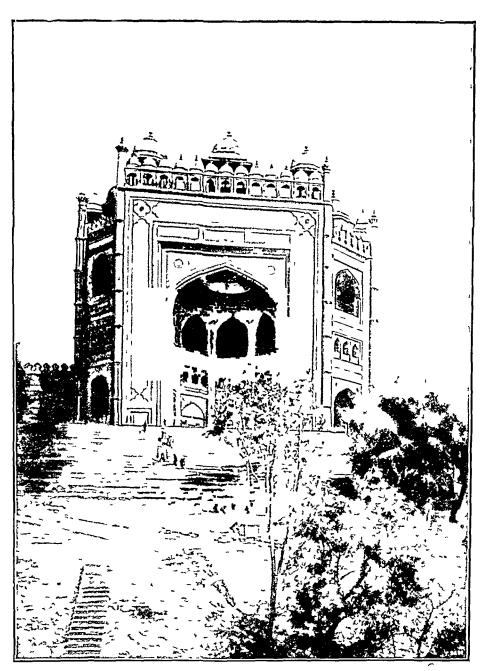
His magnificence pomp and circumstance of h's progresses and festivals impressed the eve of the beholder. He had 5,000 elephasts, 12,000 riding horses, and a camp equipage of the most splendid character. On the great days of ceremonals 'Akbar seated himself on his throne, sparkling with diamonds and surrounded by his chiefest nobles, all magnificently attired. Then there passed before him in review the

currency reform. Too decourses were about hed, and imperal mints established at preat centre, presone coms being called in. All establishment were paid as eight the wisteful method of pair and territorial is symments, being discontinued. In the post home were opened for the relief of inducent witheres, and the emperor used to visit them in passor? If he receive survey so mis to have been made every to a visit of meight wently million points. On third of the gross produce was usually demanded by the Government. India north of the Vindhy was divided into tucky, subsidies or province of each povered by according who held office during rood behaviour.

^{*} India under Mohammedan Rule Lane Poole, Ch Al

[†] Abul Fazl, Akbar nama, Elliot VI, 61

^{*} History of India Keene, 1, 139



GREAT GATEWAY OF THE MOSQUE AT FATCHPORE SIKRI BUILT BY AKBAR

		i

elephants with their head and breast plates adorned with rubies and other stones, the horses splendidly capari soned, the rhinocuroses, the lions, the tigers, the panthers. the hunting leonards, the hounds, the hawks, the proces sion concluding with the splendidly attired cavalry "* Jehangu's portrait of his father in later life deserves mention 'Though he was alliterate, yet from constantly conversing with learned and clever persons, his language was so polished, that Personal appearance to ore could discover from his conversation that he was entirely uneducated † He understood even the elegancies of poetry and prose so well, that it is impossible to conceive any one more proficient." The following is a description of his "He was of middling stature, but with a tendency to be tall, of wheat colour complexion, rather inclining to dark than fair, black eyes and eyebrows. stout body, open forehead and chest, long arms and hands. There was a fleshy wart, about the size of a small pea, on the left side of his nose, which appeared exceedingly beautiful He had a very loud voice, and a very elegant and pleasant way of speech. His manners and habits were quite different from those of other persons, and his visage was full of godly dignity "i We may add that Akbar earned the repugnance of orthodox Moslems by shaving the beard. an example which the court were expected to follow It is interesting to remember that Peter the Great of Russia provoked considerable opposition by a similar reform

This sketch cannot be complete without some notice of the more important among Akbar's ministers Beyond comparison the brothers Fair and favourites and Abul Lazl left their stamp upon Akbar's ministers and emperor Tuzi the poet the Abul Fazl the historian, stitistician and administrator, were liberals of the liberals, and en couraged Akbar in his religious speculations, while themselves carning the distrust and hatred of ortho dox Islam | Faizi was one of the greatest Persian poets that India has produced He it was Fairi and Abul I azl that by means of Persian transla tions introduced Akbar to the study of Hindu poetry Abul Fazl was prime minister and and philosophy was the author of many works of repute The 1kbar nama with its supplement, the Ain i Abbari, was by far his greatest production. The style is rhetorical and often abstruse, and the book has been unduly con demned on the score of flattery But his praise, while it was generally deserved, is infinitely less nauseous and exaggerated than that of most Indian historians, more over, it sprang from genuine adoration. He was treacherously murdered in 1602 at the instigation of Selim (Jehangir) who was jealous of his influence, and was probably urged to the deed by the orthodox party in the state. Akbar never recovered from the shock of this great sorrow, particularly as Fuzi had already passed away (1595)

No subject served Akbar so zealously and with such important consequences as the Rain Todar Mal Hindu financier, Raja Todar Mal "Careful to keep himself from selfish ambition," writes Abul Fazl, "he devoted himself to the service of the scate, and earned everlasting fame" As his reforms (supra, p 18) touched the people so deeply, it is not surprising that his name was long cherished in the popular memory British administrators cannot afford to slight the name of the man whose principles of

land revenue they have so largely followed Another Hindu favourite was Raja Birbal, whose house at Latehpur is still one of the chief attractions

to the tourist He was a Brahman, Raia Birbal 1 poet, and a musician He was noted for his wit and his liberality, but was no feeble general in the field Birbal was one of the elect who professed Akbar's "Divine Faith"

The Rapputs Bhagwan Das, Raja of Amber, and his adopted son Man Singh, were, as we have seen, related by marriage to the emperor and did him good service in the field

Amongst the orthodox Moslems at Akbar's Court two men have gained immortal Ahmed and Badaum fame by their works Nizam ud din Ahmed wrote one of the most celebrated histories of India, extending from the time of the Ghaznavides to the 38th year of Akbar's reign, and Abdul Kadr Badauni wrote an abridgment of the same work Badauni figures more largely in the court history of the reign He lived in apparent amity with the philosophic brothers, but being a zealous Moslem, he detested them and the emperor in secret His history was not published until the following reign, and it is in places a valuable corrective to the eulogies of Abul Fazl*

III - Jehangir and Shah Jahan

Akbar's last years were soured by the rebellion of his favourite son Selim, who succeeded his father on the throne in 1605 under the title of Jehangir, 'World "Born under a superstitious spell, named Grasper ' after a wonder-working saint, petted and spoilt, the boy grew up wilful, indolent, and self indulgent, too lazy and indifferent to be either Jehangir, 1605 1627 actively good or powerfully evil" He was possessed of a violent and arbitrary temper, and was a notorious and habitual drunkard, though he could control himself when necessary " His image may be seen on his coins, wine cup in hand, with unblushing effrontery, it is of a piece with the astonish ingly simple candour of his own memoirs" As he grew older, he toned down somewhat, partly, he says, from a conviction that he was injuring his health, but chiefly, no doubt, under the influence of his beautiful and talented wife Nur Jehan, the 'Light of the World' Besides the Memoirs of the emperor and the writings of contemporary Indian historians we are fortunate in possessing the accounts of several Europeans who visited India and the court of the great Mogul Up to the end of the sixteenth cen-Contemporary records tury Europe had little first hand knowledge of India The Portuguese had settled on the

^{*} Malleson s Akbar, 'Rulers of Indin' Series † But he was only such in the sense of hiving been deprived of a fitting education in youth his wrilke pre occupations had left him little time for mental culture. After his accession, he educated himself persistently, possessed a considerable library and read largely learn from Abul Fazl in his Ain: Akbari

‡ Jehangir s Memoirs Elliot, VI, 290

^{*} Elliot, Vol V, contains translations of both these histories

coast at various places from about 1500 onwards but they seldom penetrated inland and no writer of note has described his Indian travels and experiences during the 16th century. Where at last Englishmen and Frenchmen visited Delhi and Agra, the stones they told or the gargeous Indian court European traveller tool the western world by storm and people began to realize that a splendid and striking civil zation existed in the cast, as remarkable and as worthy of study as any that contemporary Lurope could After about a century of settlements the Portu Show guese began to decline. The prospects of extended empire which such befores is Albuquerque and Almeida may have encouraged were destined to remain un realized from was indeed the most splended city in the Last but the Portugue e con The Portugue c co 1 tented thenisches with tortified coast mercial supremies os ribicia i 13 the Dut hand English stators and ecommerce which brought than univalled wealth Portigal had succeeded to the commercial mo opoly of the Atabs in the Indian seas, and this monopoly depended cut rely upon the command of the seis. But the Portuguese began to degenerate under the moist heat of the Malabar Coast while they stirred up the hostility of the natives or their gired and the i intoler ant rel gious pelici

The ameration of Petits if he Spain in 1580 was the death blow to Portuguese enterprise in the Indies, and it was swiftly followed by the appearance of European rivals in the eastern seas. The Dutch appeared in 1507, but no sooner had they underm ned the Portuguese commercial monopoly than the English, whose first East India Company had necessed its charter in 1600, came to claim then share. An English factory was founded at Surat i dia couple of naval victories early in the century tra sferred the command of the sens from Portugil to Lingland The claim now for the first time brought torward by Englishmen to a right of trade and settlement in India required the approval of the emperor at Delhi The ambassadors of king James there fore visited Jehanger William Hawkins in 1600, und Sn Thomas Roe in 1615 Hawk ns a blunt er captain, was the first Englishman ever re Hawk ns a blunt ceived by the Emperor of Hindustan as the official representative of the King of England, and he obtained from the Great Mogul the first distinct "knowledgment of the 1-ghts of British commerce
"In India" Hawkins sufficied much Hawkins suffered much William Hawk us at maltientment at the hands of the Acia, 1609 1611 Portugues_€ w ho claimed these sens belonged to the King of Portugal, ' and had his goods pillaged by the Mohammedan governor of Guicia

Having arrived at the royal court, then being held it Agia, Hawkins was heartily welcomed by the imperer. The two had long conversations together in Turkish, and drank as boor companions in the evening. For more than two years he maintained a very intimate position at the court, but the intigues of the Portuguese were so persistent that he obtained from Jehangn little more than a general recognition of the English trading rights. His powers of observation were not deeply penetrative, but his nairative is not

without its value.* The revenue he estimates at the absundly high figure of fifty mile a sterling and the daily expenses of the court at £8,000. The court pewels and the military establishment, the noble its and the emperor's domestic life are all described with considerable minuteness. Jehangir spent a great proportion of the day and night in sleeping, and drinking. Owing to the imbibling of wine and the esting of opium, the emperor was not able to feed himself at supper, "but it is thrust into his mouth by others."

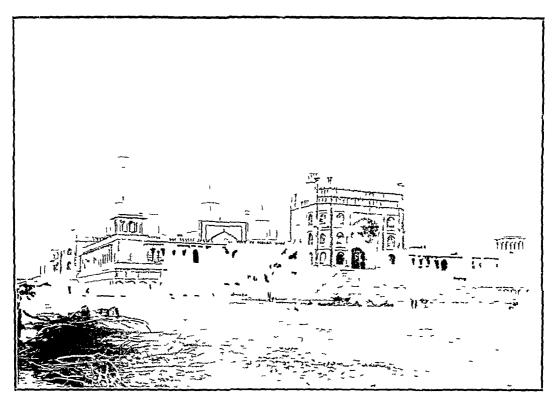
Sir Thomas Rocking in 1615 to complete Hawkins work. An arstocrat of the best Flizabethan model he did much to inspire respect for his country when he arrived, the influence of the Portuguese at

When he arrived, the influence of the Portuguese it court had almost succeeded in driving the English out of Surat, Englishmen were flouted and humiliated every day and it was only Roc's own spirited demean out that protected him from insult. Roc's embress soon changed all this 'Despite of the opposition of the I rince Shahjehan, of the intrigues of the empress, the prime minister and the Jesuits—mostly Portuguese—Roe not merely asserted his countrymen's rights to fair treatment, but won a scries of important diplomatic victories." All bribes and extortions prevously taken from his countrymen were recovered, and the English trade at Surat was sanctioned in firmans assued to the local authorities | Johangir conceded privileges equal to those possessed by other foreigners, and the Linglish factory at Surat was established on a stable bisis the Portuguese monopoly had already been broken through the Dutch remained the only serious Eu ropenn rivals in the Eastern trade. But, as Roc remarks, they frittered away their strength in seeking 'plantations' by the sword 'Lett this bee received is a rule that if you will profit, seeke it it sea, and in quett trade, for without controversy it is in error to affect garrisons and land wars in Luglish trade now settled on a firm foun

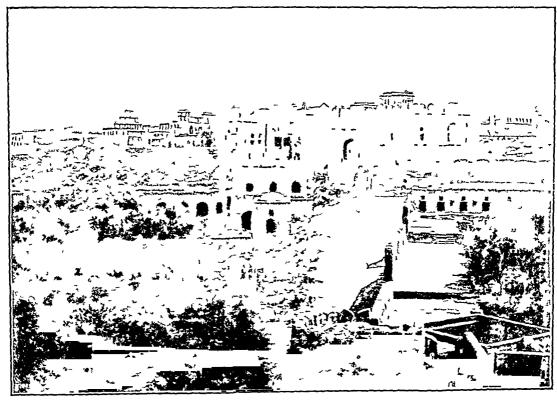
India Roe's journal † gives a picture of contemporary India of exceptional value and interest, and as a record of court life it is an admirable complement to the narrative of Hawkins Roe had an excellent talent for observation and a natural gift for literary expression graphic description of the royal durbar, and the mag nificent jewellers of the court, but the vices of the emperor made this show seem somewhat hollow. The following picture is typical. "The good king fell to dispute of the Lawes of Moses, Jesus and Mahomet, and in drinke was so kinde, that he turned to me and sa d 'I am a king, you shall be welcome' Christians, Moors, Jewes, he medled not with their futh, they came all in love, and he would protect them from wrong, they lived under his safety, and none should oppresse them, and this often repeated, but in extreame drun kennesse, he fell to weeping and to divers passions, and so kept us till midnight 'Sever il other Europeans have left accounts of their Indian experiences in this reign, but none cast such light upon the court, the per

^{*} The Hankins Voyages Part III (Hakluyt Society) Sir Clements

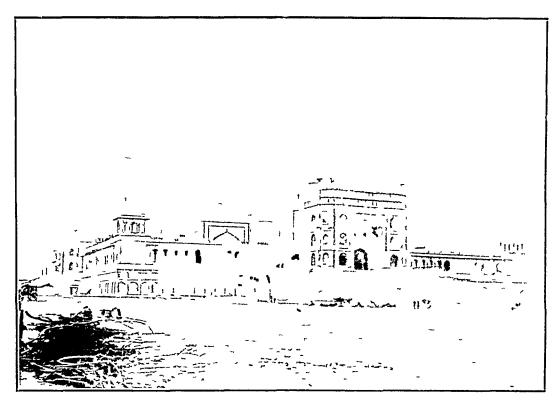
⁺ Sir Thomas Roe's Journal and Letters, Foster (Hakluyt Society)



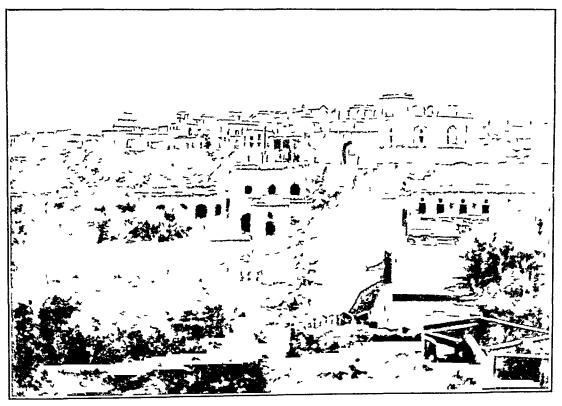
Front or East View of the Jama Masjid at Delhi Showing the Royal Gateway. Built by the Emperor Shih Jahan, 1644 1658



VIEW OF FATEHPUR SIKRI FROM THE HIRAN MIN'S Built by the Emperor Akbar 1569-1574



From the Kovil Galeway - built by the Emperor Shah Jahan 1644-1658



VIEW OF LATERPLE SIRPLERON THE HIPAN MINAR.

Built by the Emperor Aklan 1869-187-

son arty of the emperor, and the methods of government as the journals of Hawkins and Sir Thomas Roc

Jehangir was certainly a strong contrast to his father. But he was shrewd enough to muntain his father's fundamental principle of toleration and the conciliation of Hindus At the Character of Jehangu same time, while really less devout than Akbar, he precessed orthodoxy and destroyed all traces of the pantheism which had flourished at his The great thing he lacked was father's court the strong hand the masterfulness of Akbat governors and officials became corrupt as of vore rob bery and brigandage reappeared even in the civilized provinces of the empire. Granted the authenticity of his Memoirs he seems to have possessed plenty of abil ity, it was a moral weakness from which he suffered He was fond of jewels and a connoisseur of pictures and statues. He was a mighty hunter like all his an cestors, and like Babar in telligent lover and ob server of nature both immate and mammate of the Iwelve Institutes, included in the Memoirs, we worthy of notice

They display the best intentions and a knowledge of the principles of good govern His Government ment, but at the same time they are modelled on the legislation of his predecessors and they were not persistently carried into practice Thus he abolishes all unlawful exections, but there is imple testimony to prove that the order was not observed He asserts the indefeasible rights of private property and forbids the customary right of search Both orders were contravened by his officers. He distin guished himself, as Ala ud din had done before by a temperance enactment, but he himself was notorious for inebricty He forbade brutal mutilations, but a catalogue of his own cruel deeds could be cited against him *

Doubtless things would have been worse but for the influence of the gifted em Nur Johan press, Nur Jahan Her life is veritable oriental romance and the iscendance she gained at the court was remarkable and enduring She werned the emperor from excessive drunke ness to moderate drinking, but the intrigues and rebellions which clouded the end of the regn Rebellion of Khusru were largely the result of her un 1605 scrupulous favouritism Of these rebellions and f the wars which took place under Jehangir not much need be said. Soon after the access sion the Emperor's eldest son, Prince Khusru, rebelled, and on being defeated was condemned to a life long The war opened by Akbar in the Decean captivity continued with intermissions The great Malik Amber, an Abyssinian general in the service of the ruler of Ahmednagat, resisted all the em Wars in the Decean peror's expeditions, and although driven back, he was never altogether subdued The southern boundaries of the empire thus remained almost as they were at the death of Akbar Amber is famous for his foundation of Aurangabad, and for his introduction of a new revenue system into the Deccan He was the last great figure in the declin ing state of Ahmednagar

Another war took place with the Rana of Ud upur but it was terminated by the mili tary genius of the future Shah Jahan The Rana received back his principality and no longer remained

a cause of trouble to the Imperial Government

It has been said that Nur Jahan was largely responsible for the troubles which darkened the end of an otherwise furly peaceful reign. The elder son of Jehanga, Prince Khusru wis made away with probably at his brother Khurram's instigation in 1621. Prince Khurram, who received the title from his father of Shah Jahin, 'I old of the World, thus became the obvious hen to the empire, for which his talents as well as his seniority marked him out. But he was too grave and reserved for his frank outspoken

Kebellion of Shah Jahan 1623-162

father, and he somehow or other incurred the displeasure of his all powerful mother. Meanwhile he was

in fivour with the prime minister Asif Khan, a brother of Nur Jihan. Shal Jahan, on discovering the intrigues which used at depriving him of his heritage rused the standard of rebellion. He wis, however, reduced to submission by Mahabat Khan a general who had fought under Akbar and the most eminent main in the empire But Mahabat and his umy looked with no favourable eve on the simister designs of the empress. Failing to win him over, Nui Jahan resolved on his overthrow. But the general cleverly anticipated his fate by a bold seizure of the emperor's person, when Jehangir was on

the way to put down a rising in Kabul (1626). The empress thereupon marshalled the imperial guard and tode fully armed on an

cleph int it the heid of her troops to release her lord I uling, however, in open attack, she boldly entered the cump, shared her husband's captivity and at length effected his release by stratagem (1627). Mahabat kh in fled to the Decean and joined Shah Jahan who was once more in revolt. But the release of the em

Death of Ichanger, in a position to suppress the growing rebellion, he became violently all from asthma and died in October 1627, being then

in the sixtieth year of his age

There was little use in opposing Shah Jahan who had Mahabat and the whole army on his side. After a stop gap had been provided by Asaf Khan in the person of a son of the dead Khusru—a measure obviously taken to foil the attempts of another claimant who was in the field—Shah Jahan appeared at Agra and was proclaimed emperor. His intriguing mother ie tired into seclusion and hived outside the course of

The new emperor was the most popular of the Moguls, and the most magnificent. His ability had been tested during his father's lifetime, but the haughty gravity and reserve which had gained him many enemies at court seem to have been entirely cast of when he

Character and poven ment assumed the crown Shah Jahan proved to be frank and accessible, kindly and benevolent Himself the son of a Hindu mother, as Jehangir had been before him,

^{*} See especially appendix on Jehangir's Institutes, Liliot, Vol VI

he carried on the tolerant traditions of his predecessore, both from policy and because he had no very strong religious convictions himself He was free from the ciuelti and drunkenness which taimshed the reputa tion of Jehangu, but instead he abandoned himself to the genial pleasures of the harem, and remained a volup tuary even to the end of his days. He was extravagant and availcious to a fault, but the management of the finances was in such able hands—the emperor was fortunate in his counsellors—that so far from there being a deficit, an enormous simplus was left in the tiensury at the end of the reign Despite the millions lavished by Shah Jahan on building operations, jewellery and display, we hear of no unusual extortion. On the other hand, the European travellers are at one in laud ing the wealth of the country The soil produced abundantly, and manufactures flourished in all parts Bengal was a great cotton producing centre, and Dacca was the magnificent emporium of the Bengal com-Silk and leather were manufactured in Sindh Broach was a great weaving centre, the magnificence and wealth of Ahmedabad, the capital of Gujerat, greatly impressed the German traveller, Mandelslo Cambay was another wealthy town it was larger

than Surat, and carried on an ex-Wealth of India tensive trade Indeed, the wealth of Cambay was attested fifty years before by the Dutch traveller Linschoten, who visited the Indies to report on the possibility of founding a Dutch East India Company Mandelslo has provided us with a graphic picture of Agra, the early capital of Shah Jahan Some of the streets were vaulted like our modern arcades were seventy great mosques and eight hundred public baths Every nation which traded with the east had an establishment at Agra, the English amongst them Christians were tolerated there, and the Jesuits had a fine church of their own The imperial palace now being reased by Shah Jahan within the fost of Akbar was resplendent with jewelled mosaics, and the em

peror was credited with having a The emperor a great stored treasure equivalent to 300 millions of our money Manuque, another traveller, says that Agra in 1640 stretched for six miles along the Jumna, and contained a population The sumptuousness of the banquets greatly impressed the Italian, and it is noteworthy that ladies attended unveiled. The beautiful Diwan-i-Khas and the Pearl Mosque built by Shah Jahan are amongst the glories of Agra which still attract tourists from all over the world. But more glorious still is the Taj Mahal, the world famous mausoleum of the Emperor's beloved wife, Mumtaz i-Mahal, 'The Elect of the Palace'* Tavernier, a Fiench traveller, who spent a great part of his life in the east, asserts that 20,000 workmen were employed for nearly twenty years in the construction of the Taj The labour and time devoted to this masterpiece in marble suggests comparison with the greatest undertak ing of the ancient world, the mammoth pyramid of Kheops at Gizeh But the cost of the Taj must have been incomparably greater, while it is not merely a great engineering enterprise but a supreme work of art About

1638 the emperor caused a new capital to be creeted at Delh along the Jumna, under the name of Shahjahan abad. When completed ten years later, it was the most magnificient royal residence in the world. The fort is mightier and more extensive than the fort at Agrismilarly, the palace apartments were far grander

In the Hall of Public Audience stood the famous peacock throne, which cost the Emperor £6,000,000. It was carried away to Persia by the conqueror Nadii Shah in the 18th century and is now at Leheran. The Jama Masjid at Delhi, the greatest mosque in India, was another of the foundations of this imperial builder. Shah Jahan spent the earlier years of his reign at Agia, but after the completion of the new city at Delhi he mostly resided there, taking, however, summer trips to the beautiful vale of Kashmir "with a set of travelling tents so numerous and complete that they took two months to pitch at the successive stages of the royal route."

It is obvious that the wealth of the court reflects the wealth of the country. That many provinces were prosperous we have seen from the accounts of European travellers, whose impartiality it is reasonable to assume. That the national wealth had increased during the last fifty years is natural, seeing that the greater part of the empire had been fairly free from war since the days of Akbar. The revenue system inaugurated in his day had had time to bear fruit, and Shah. Jahan received

an average annual land revenue of The land revenue twenty crores of rupees (£20,000,000), about twice as much as was paid to Akbar absence of testimony it is unfair to assume that a higher rate was exacted probably more land was cultivated, the administrative machine had with time become more perfect, and above all the area of the empire had been enlarged by the middle of the seventeenth century Much of the emperor's treasure was derived from the costly presents given by his noblemen, and it is constantly asserted by contemporaries that the estates of the jagirs escheated to the crown on the death of then holders This picture of wealth and fair government where the emperor "reigned not so much as a king over his subjects, but rather as a father over his family and children," was however undoubtedly stained by several of the vices incidental to Oriental despotism

Certain vices of despotism apparent

While Shah Jahan tolerated enor mously wealthy subjects, the govern ors of provinces did not always show

themselves so n ce Tavernier says that in certain places the peasants were reduced to great poverty, "because if the governors become aware that they possess any property they seize it straightway by right of force. You may see in India whole provinces like deserts, from whence the peasants have fied on account of the oppression of the governors." But this can rarely have applied to any but the outlying provinces, perhaps Gujerat and Bengal. Again, the roads were not uniformly safe, an escort of twenty on thirty men was necessary to travel across the empire in security. Thirdly, the harem was a great centre of intrigue. Not only did Shah Jahan waste much time among his women and latterly entrust all serious work of government to

^{* &#}x27;Ty Mahal is a sulgarization of this title of the Queen

^{*} Tavernier's Travels in India, translated by Ball I, 301

his eldest son Dara, but the ladics of the court obtained undue influence over appointments, so that favour was often more powerful than merit. The position of governors and officials lacked stability—they were changed too frequently.

The foreign history of the reign is concerned chiefly with the Dece in and Afghanistan. Shah Jahan had as Prince Khurram carried on in Jehangir's reign the work that Akbar had begun in the Decean. He had reduced

Ahmedingar to the rank of a tribut ary State. Bear had previously been conquered by Ahmedingar and the northern part of it had, like Khandesh, been brought within the empire of Akbar. Bidar had become extinct. There remained therefore besides the new tributary state of Ahmedingar the two other. Mussalman kingdoms of the Decean Bijapur and Golconda. Throughout Shah Jahan's reign the Decean was disturbed by wars and rebellions. The Nizam Shahs of Ahmedingar were at last overcome by the emperor in

person (1636) and their kingdom in Annex ition of corporated in the empire. Bij ipur Ahmednagar, 16,6 which had assisted Ahmednagar in its struggles ig unst the Moguls, was now for the first time rendered tributary Twenty years later Aurungzeh, who was given complete command in the Decean would have added Golconda to the empire, but for the pacific commands of his father (1656) and was on the point of conquering Bij ipur (1657) when the question of the succession summoned him to the north zeb, however, after he had inherited the throne, did round off the Mogul dominions by overthrowing the last of the independent Mohammed in kingdoms of the Their resistance in the reign of Shah Jahan is rendered noteworthy by the fact that it was strengthen ed by a new Hindu element, the Mahrittas weakening of the Mohammedan rulers in the Decean strengthened the power and influence of the native Mahratta chiefs One of these, Shahii Bhonsla who held land it Poona now issisted the kings of Biranin in checking the aggressions of the Moguls The emperor of Delhi doubtless seemed to such is he i more danger ous for than the enfeebled local king. But the Moguls would have done well to regard the Mohammed in kingdoms of the south is the bulwirk of Islam iguist the rising Hindu power Shahji Bhonsla was the progenitor of the great Sivaji who with his des condents was largely responsible for the downfall of the Della empire

In Afghanist in, Kindah ii, previously lost, wis surrendered to the Moguls in 1637. But in 1648 it was reoccupied by Persia, and despite three attempts it re-capture was not again subdued, being finally lost to the empire. It is toul, however, remained a part of the Mogul empire until its conquest by Nadii Shah in 1738. In this reign an invasion of Balkhi was attempted but it ended in disaster at was impossible to conduct successful warfare beyond the Hindu Kush.

During the present reign, the Europe in settlements continued to increase in number and importance. The Portuguese power indeed declined, and in 1631 they were driven out from Hugh with great slaughter, the pretext being that they had assisted in the marauding

Growth of I gropern cuttements and for fourteen weeks and after the

the commerce commerce for fourteen weeks, and after the Portuguese were once driven out

they never regained their position in Bengal* The Dutch and English were the rising commercial powers in the cast. The foundation of English commerce in the cast has already been noticed in dealing with the reign of Jehangir. Under Shah Jahan the East India Company greatly extended its operations. Fort St. George was founded in 1639 on a piece of land

Decry of the Portugue e granted by a native poligar who was descended from the kings of Vijay inaguat A factory was opeled

in Oussa and the English replaced the Portuguese at Hugh in Bengal These projects were liberally favoured by the emperor, for the English traders made themselves less hated than the Portuguese in their dealings with the natives. They did not aspire as yet to empire were less greedy and tyranical and above all

Rivilry of Inglish and Dutch had no inquisition. The Dutch me inwhile had established factories on the Walabar Coast (e.g. at Surat)

and did almost more than the English to break down the commercial monopoly of the Portuguese. But they were destined not to reap the fruits of their victories and after a long period of obstinate rivalry with the Linglish (alout 1605-1689) they were reduced to a very secondary position on the mainland and devoted their energies to the islands of the Fastein Archipelago, where they succeeded in building up a glorious colonial empire. It is to be remembered that the French did not appear in India is traders until the reign of Aurangreb. The trivellers Favernier and Bernier brought India to the notice of the French government by the accounts of their journeys in the middle of the seventeenth century, and thus paved the way for French commercial under takings as I inschoten had done in the case of the Dutch

The interest of Shah Jahan's latter vears centres round the struggle for the succession. Like Akbar and Jehangii the old emperor was troubled by the rebellious imbitions of his sons. But in his case the succession question was more complicated. He had four sons Dara, Shuja Auringzeb and Murid. Each was animated with the sole desire of securing for himself the succession to the throne, and consequently regarded the others with suspicion and hatted. To stop their quarrels and intrigues and perhaps also to ease his

own shoulders of the now distasteful burden of sovereignty, the emperor appointed his sous governors of four tunity to tuse times for the execution of then designs. When in 1657 Shith Lihan was believed to be dying

tunity to ruse itmics for the execution of their designs. When in 1657 Shith Juhan was believed to be dying each of the four sons prepared to fight for the throne. Duri had left his vice royalty in the north west and was acting as regent at Delhi. Shuja was in Bengal Murad in Gujerat, and Aurangzeh in the Decem. Shuja

^{* 1} or a graphic account of these transactions see the Badshah nama of Abdul II amid Lahori, I lliot, VII, pp 31.5 [Some of the Moslam grievances against the Portuguese in general are cited by Khafi Khan ibid, pp 344.5

[†] See p 10 supra

was the first in the field, but was defeated near Benares and driven back into Bengal Aurangzeb craftily officed his services to Murad and the two joined forces with the result that the royal army despite the bravery of its Rajput general was destroyed on the banks of the Narbada (1658) Dara, whose succession was secure if he crushed the forces of the coalition, then marched out at the head of a magnificent army of 100,000

Battle of Samugarh two armies met at Samugarh, after wards known as Fatehabad, 'the City

of Victory, on the Chambal In sweltering heat the bat the swayed to and fro, until the cool courage of Aurangzeb gained the day Many of Dara's men were half hearted, and he himself was indiscreet. All the world tendered their homage to Aurangzeb, who saluted Murarlas emperor until he found opportunity to seize him in a moment of drunkenness. Shah Jahan was kept a tight prisoner in the palace at Agra, loaded with presents and beguiled with amusements until he died in

1666 at the age of seventy six His popularity must have sadly Aurangzeb triumphant wa ed otherwise more effort would have been made to save him from such disgrace Aurangzeb successfully disposed of his rivals and overcame all their efforts to dispute the throne in three years Dara and Shuja suffered fresh defeats Dara was betrayed into Amangz b's hands and executed Shuja came to an unknown end in his wanderings, and Murad was put to death in prison had triumphed by his duplicity and cunning no less than by his qualities as a leader and a general His puritanical method of life and his bigoted orthodoxy were also responsible for gaining over to his side that large body of Mohammedans who felt that conciliation and free thinking had gone too fai, and who saw in Dara a sceptic, in Shuja a debauchee, in Murad a wine bibber

IV -Aurangzeh, the Puritan Emperor

Aurangzeb's long reign of nearly half a century wit nessed events which were fraught with grave importance for the destinues of India and the history of the world Under him the Mogul power reached its apogee and began to decline. The rise of the Mahrattas threa

Growing connection between India and Europe tened the very existence of the empire and the growth of the English settlements marked the advent of a power destined to contest with the

Mahrattas for the Mohammedan inheritance Aurangzeb mounted the throng in the very year that Cromwell died and outlived three successive monarchs of the British Isles Before hedied, England had passed safely through the revolution, and with the establishment of a national foreign policy had entered upon that career of colonial and maritime enterprise which resulted in the overthrow of all European in als in the east during the 18th century and in the foundation of a glorious Indian empire But during the present reign Britain's ultimate supremacy remained concealed in the womb of the future, while France under Le Grand Monarque enjoyed in un rivalled ascendency in Europe, and laid the foundation of a power in India which for a long time seemed

likely to exceed all lival efforts * From this time forward Europe and India were more closely bound up together the east was no longer isolated from the currents of European activity, and mercantile ambition led gradually to territorial domination. Notwithstanding under Aurangeh, as under his father and grandfather we only see the small beginnings of these great events.

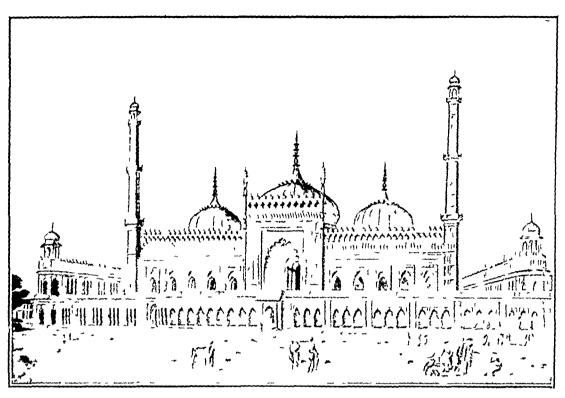
Aurangzeb took for his title the Persian word Alamgir, 'world compeller but to Europeans he has been always known by his own name. His character

was a striking mixture of greatness His chai actei and littleness A capable general and organizer, unusually brave, even for a Mogul, a conscientious ruler and a religious man, he gave himself to the work of government with rare whole heartedness, not spared himself from the minutest de tails of administration either in sickness of in age. He superintended the whole work of government with the perseverance of Philip II, and controlled every wheel of administration with the unvarying patience of Frederick the Great, yet his reign was a failure because of his great He was a pur tan more bigoted than Crom well, and he sacrificed the weltare of the state to religious orthodoxy with the recklessness of Louis XIV conscience dictated persistent warfare against all Shias, and persecution of all 'infidel' Hindus He was per verse in mind and short sighted in policy, malicious and sometimes treacherous towards foes, suspicious towards all, including his sons and friends. He suffered from a deficiency of heart intellect and will power alone do not qualify a sovereign to rule a composite and extensive empire But, in spite of all failures and mis takes, the indomitable resolution and dogged perse verance of the man compel our admiration. He was a grand solitary figure fighting against tremendous odds, certainly misguided, but as undeniably great

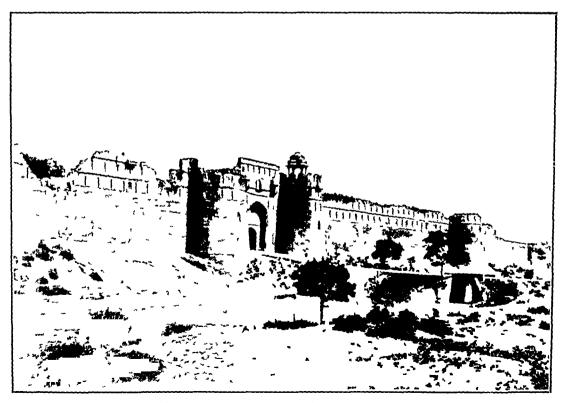
Unfortunately our sources for the history of the reign are more limited than in the case of the last two emperors. Aurangzeb distrusted historians, and for bade the writing of history during his reign. But Khafi

Khan, one of the best of Indian his Authorities torians, took notes in secret, and some years after the emperor's death published his great history of the House of Timui The part dealing with Amangzeb has the advantage of being largely the regult of personal observation at is the best connected account of the reign that we possess T There is unluckily a comparative dearth of European travellers. But we have Bernier a French physician of acute observation, whose extended sojourn in India during the earlier part of the reign impelled him to write a 'History of the States of the Great Mogul' and several lengthy letters to Colbert and others on the conditions of trade, society; and government The other European travellers who visited different parts of India during the last part of the 17th century stayed a shorter time and saw less, so that they hardly call for ment one in this place The European mercantile communities in their coast settlements supplied as yet no literary genrus, nor did their members travel extensively through India

^{*} See Vol III (ii) in this Historical Summary
† For an abridged translation of that part of the work dealing with
Aurangzeb and his immediate successors, see Elliot, Vol VII
† See Bernier's Travels, translation, A Constable



Mosque at Luceson (from a punting by Henry Silt, about 1809)



Front or West View of Purana Kalandar Delhi standing on the site of the citable of Indraprastha, founded by Yudhisthira in 1450 B $\,$ C

Known also is Indripat, Dinpinii, and Shergirh or Shahgarh

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The reign may be divided into two easily defined periods, the year 1676 being the dividing line between them. In the first period, which comprises eighteen years, the magnificence and power of the Mogul empire reaches its culmination, while in the second the principle of toleration by which alone it had become so great is

violated and consequent decline Chranology of the begins. But with whit was perhaps te gn the most formed able problem of the

reign no dividing line is possible The rise of the Mahrattis to the position of a great national state was well high continuous throughout the reign of Aur ingreb In respect of this great question, 1680, the date of Six m's death, is the most notable Lindmark Thenceforward Auringzeb devoted himself to stamp out the Mihratta power, and the war in the Dece in occupied his best ener gies for the remainder of his days. If will be necessary to deal with the Mahratta question separately after the other noteworthy events of the reign have been outlined

Auring chidoes not seem to have been fully sure of his position until the death of his Li t per of to f ciptive fither in 1666. Thence 1/70 forvard his position was undisputed, and except in the Decem prosperity for a time attended his government. Amu Jumla, a capable but dangerous favourite and a renegade servant of the king of Bij ipur, had been in 1662 entrusted with an expedition against the mount un langdom of Assam. Owing to the difficulties encountered and a violent outbreak of cholera, the attempt fuled. But in the provinces of

Hindustin there was peace and Tiebilk of the A successful war was prosperity empir peaceful and wiged in 1660 ignist the line of 1 c prio Ard in on the Bay of Bengal, and

the troublesome pirates of Chittagong, who had received protection from this monarch, vere dispersed. In the west also, there was peace, and embassies were received from the large of Persia and Lthiopia (Abyssimi), is well is the Sherif of Mecca. In the early seventics, however, a troublesome war broke out with the Mgh in tribesmen and although the I inperor appeared on the frontier in person, his hold on Kabul wis weak, and the settlement he arrived at (1675) was unsatisfictory. South of the Nurbida the Mihrattis under their chief Sivip were gridually extending their power, and the Moslem Lings of Bijapur and Golconda were still unconquered. Still the greater portion of the provinces of the empire remained at peace and enjoyed a fair measure of prosperity, and it is not until 1676 that we reach the turning point of the reign

Henceforward the intolerant orthodoxy of Aurang zeb asserted itself more disistrously Second p riod, 1676 The loyalty of the Hindu element, and particularly of the Rapput, was undermined, and disaffection at home crowned with success the efforts of the enemy without. In the early years of his rule Aurangreb had Rebellion and dis wisely maint uned the conciliatory affection policy of his predecessors. He had pudoned Jiswint Singh, the Raja of Marwai, for espousing the cruse of Dara, and Decline of the am he had married his cldest son to a pire begins Hindu princess But certain mea

surcs taken in the first period of the reign anticipated

the persecution which was to come Astrology was for bidden and poets were discouraged. Gambling houses were shut up, in edict was issued ig unst music and durcing, the great furs which accompanied Hindu festivils were prohibited. This puritained system must have caused no little discontent, although it is doubtful whether it can have been enforced outside the larger towns. In 1676 the emperor's temper was soured by a formedable insurrection of the Saturmaris, a sect of Hindu devotees. The trouble cross in a police affray and extended so rapidly that it caused considerable difficulty to the government. The bigotry of Aurangzeb

was now thoroughly aroused Period of the Julya destroyed Hindu temples at the 1677 sacred cities of Muttra and Benares, and dismissed from the revenue service all Hindu officers, with the result that the revenue system fell into confusion. Purtly is a means of replenishing his coffers partly to satisfy his religious feryour, he in 1677 revived the hated it major poll tax on non Moslems. This made more complete the estrangement between him and his Hindu subjects and when crowds of expostulating Hindus blocked his way to the mosque, he forced his elephants forward over their bodies.* Such a policy was as foreign to the course pursued by Akbar and Shah Jahan is Aurangzeb's indeterminate policy in the Decem The wisdom which built up the Mogul empire could never have been guilty of such mistakes To stir up opposition in the home provinces of the empire was doubly dangerous now that the Mahrattas were waging a national war in the Decean emperor's dealings with the Rajput princes kindled the sparks of discontent into a flame. Jaswant Singh died it kabul in the sime year and Aurangzeb attempted to seize his sons in order, it is credibly asserted, to bring them

up is Moslems. The young princes Rajput revolt, were successfully spirited away out 1079 1600 of the emperor's reach, but the outrige provoled a combined Rapput rebellion Rips of Mirwir and Mewar (Jodhpur and Udaipur) commanded bodies of splendid horsemen, and were protected by a belt of sindy desert. The emperor's fourth son, Prince Akbur, deserted to the enemy, and the Raputs seemed to be on the eve of a splendid success But the cunning of the emperor prevailed. Akbar and his new allies were separated, the country was ravaged with fire and sword, three hundred shines were cast down, and Rapputana sullenly submitted. The severity of the conqueror's measures of retaliation, which spared neither women nor children, resulted in the permanent then ition of the Rapputs. The sore was never healed and instead of having the Hindu chivalry as his allies in the Malifitt i war, Auringzeb was constantly troubled during his liter Dece in campaigns with the mutterings of rebel hon in the north The proud and haughty Rapputs, who had so long been the bulwark of the empire, became a source of we thress and anxiety - For more than the last twenty years of his life Aurangeeb was campaigning in the Deccun, and the longer he remained absent from the north, the more the empire fell Rebellion and disor der in the north during into disorder The treasury was later part of his reign

drained for the endless expenses of

in unsuccessful war, and the gradually diminishing * See Ahafi Khar, Liliot, VII, 296

prestige of the imperor made itself felt far and wide The later years of the old ruler were complicated by a rebellion of the Jats near Agra, and a Sikh insurrection in the Punjab, as well as continued Rajput hostility The monarchy was now frankly Mohammedan and Hindus were all excluded from office, Hindu merchants were taxed double on their commercial trans actions, the Hindu religion was as far as possible repressed in its public manifestations at least. This policy sounded the death knell of the Mogul empire as surely as Philip II ruined the prosperity of Spain and Louis XIV that of France by intolerance of religious beliefs other than their own The curtain of Aurangzeb's life drama falls upon a scene of no good omen for his house—three great Hindu nations, Mahrattas, Raiputs, Sikhs all in arms against the Moslem peoples shattered the Mogul empire before the British appeared upon the field it was from them therefore rather than from the house of Timur that the British conquered India

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Death of Sivali chief he was the feader in a great national movement, and he built up with exceeding rapidity a considerable kingdom which

His greatness he governed as ably as he defended it Aurangzeb spoke of him as "a great captain," and said "My armies have been employed against him for nineteen years, and nevertheless his state has always been increasing"

^{*} See p 23 supra

The spirit Six an Ind created was not crushed with his death. Aurange barried in the Aurana she same the coan in 1652 and tool arrival.

pairns in the Decean

Decen in 1653 and took personal command of the Mogul armies. Until his death in 1707 he was almost

uninterruptedly occupied in attempting to overthrow the Mahrattas but the end was total failure. His short sighted policy led to the final extinction of the kingdom of Bijapur (1686) and of Colconda after a stirring siege (1687). The social and political organiza

Annexation of B ap rand Go conda

tion of those Lingdoms being brolen up, the Decem sank into a state of anarchy. The armies of the defeated Lings flocked to the standards of

Sambley, Six ye's son and the Moguls were not strong enough to conquer them. The degenerate and undescription of the Mogularm's was unequal to the task before it. A military occupation of the Decean was accomplished, and Sambley, when he fell into the hands of his enemy was cruelly executed (1689). But the Mahrattas distinguished themselves under the regency of Raya Ram in a predatory

Guerals warfare Improblity of the dump thirstia guerilla warfare which work out the forces of Aurungzeb. Hardy swords men and during riders, they were adopts in the art of laying ambus

cades seizing forts by stealth and cutting off convoys of provisions. Under this system Mogul victories were of no value, and few opportunites were given them of ginning victories in the open field. On the other hand, defeats made no impression on the Mahrattas. Aurangach might capture the important fortress of Sitara and might disperse their forces, they would promptly appear in another part of their mountainous country and ruid in unsuspecting Megul camp. They plundered even is far north as Malwa, and Gujerit and begin to be a

Indominable readulation of Aurange but the conduction of Aurange but the conduction of the conduction

the old emperor is the most remarkable feature. He planned and controlled every movement in person at the same time as he superintended the minutest affairs of his extended empire. An octogenarian, he suffered storm and flood, privations and fatigue, and when in his eighty ninth year the worn out veteran with drew his dejected remaint into Minediagai, it was time for him to die and confess his fulure. The empire was in a state of anarchy beyond example. Disaffection was infe beyond the Vindhyas the Mahrattis had been formed by resistance and trained by wasfare into a powerful nation, no future emperor could hold un disputed sway south of the Narbada. Aurangzeb died

In death 1707 in the fort of Ahmedragar, telling his beads, repent int of his sins, and morbidly afraid of death. His is beyond dispute a grand figure, in spite of all his a irrowness and folly. He was throughout true to the colours of his faith, such as he understood them. His life was tragedy, and a vast failure, but he failed grandly

Bernier, in a letter to the great French minister Colbert, has some interesting remarks upon the condition of India in the early part of Aurangzeb's reign. He dwells on the extreme fertility of certain provinces, such as Bengal, and notices the prosperous condition of

manufactures in various parts of the empire. At the same time there were vast tracts of sandy and barren country, build cultivated and thinly peopled. "Even a considerable portion of the good land remains untilled from wint of labourers, many of whom perish in consequence of the bad treatment, they experience from the governors. These poor people, when incapable of discharging the demands of their rapacious lords, are not only often deprived of the means of subsistence, but are bereft of their children, who are carried away.

oppe onefile many of the persentry driven to despuir by so excerable a tyranny, abundon the country, and seel a more tolerable mode of existence either in the towns or camps, as bearers of buildens, carriers of water, or servants to horsemen Sometimes that five the territories of a raja, because there that find less oppression, and are allowed a greater degree of comfort. The men who held the high positions at court, in the army and in the provinces were known to Bermer and other Europeans as Omrahs,

that is, Amirs Many of these were Persons of high birth, but Aurangzeb attempted to clear his court of Persian Shahs Omrahs who, it must be noticed, were not a hereditary nobility, drew immense salaries calculated on the number of horse which they nominally commanded Some were paid in cash, others by jagirs, but despite their wealth they were constantly in debt owing to the huge presents etiquette required the emperor to receive It is not improbable, therefore, that they fleeced the Land not alienated as jagus was known as the king's domain land there the revenue collection was hunded over to contractors, who like the Roman tix firmers lined their own pockets at the expense of Thus the well considered financial the proxincials

the thousands of slives and attendants, the stables

The thousands of slives and attendants, the stables, the luxurous travelling equipages, and above all the scrapho, were a tremendous drain upon the resources of the kingdom. No doubt Shah Jahan spent more in these ways than his son, but on the other hand his

Wir expenses were unusually light
Bernier and other contemporary
observers by great stress upon the

fact that the emperor was sole land owner in the state lagirs were only held during office, or for life at most, nor was there the same security of occupancy amongst the persantry as it the present day. The governors were therefore tyrannical and bent on enriching themselves as speedily is possible, while the persantry had little incentive to work and render the land more productive blavery and universal ignorance are two further blots upon the page of Mogul civilization in India. Bernier's conclusion is worth quoting. "The country is ruined by the necessity of defraying the enormous charges required to maintain the splendour of a numerous court, and to pay a large army maintained for the purpose of keeping the people in subjection. No adequate idea can be conveyed of the sufferings of that people. The cudgel

^{*} Constable s Bernier, p 205

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ed against him for nineteen years, and nevertheless his state has always been increasing "

^{*} See p 23 supra

The spirit Sivaji had created was not crushed with his death. Aurangzeb arrived in the Deccan in 1683 and took personal

Aurangzebs cam paigns in the Deccan, 1683 1707 Deccan in 1683 and took personal command of the Mogularimes Until his death in 1707 he was almost required in attempting to exertifying

uninterruptedly occupied in attempting to overthrow the Mahrattas, but the end was total failure. His short-sighted policy led to the final extinction of the kingdom of Bijapur (1686) and of Golconda after a stirring siege (1687). The social and political organiza

Annexation of Bijapur and Golconda, 1686 7 tion of those kingdoms being broken up, the Deccan sank into a state of anarchy The armies of the defeated kings flocked to the standards of

Sambhaji, Sivaji's son, and the Moguls were not strong enough to conquer them. The degenerate and un disciplined condition of the Mogul arm, was unequal to the task before it. A military occupation of the Deccan was accomplished, and Sambhaji, when he fell into the hands of his enemy, was cruelly executed (1689). But the Mahrattas distinguished themselves under the regency of Raja Ram in a predatory

Guerilla warfare Impossibility of subduing Mahrattas guerilla warfare which wore out the forces of Aurangzeb Hardy swords men and daring riders, they were

adepts in the art of laying ambus cades, seizing forts by stealth and cutting off convoys of provisions. Under this system Mogul victories were of no value, and few opportunites were given them of gaining victories in the open field. On the other hand, de feats made no impression on the Mahrattis. Aurangzed might capture the important fortress of Satara and might disperse their forces they would promptly appear in another part of their mountainous country and raid an unsuspecting Mogul camp. They plundered even as far north as Malwa and Gujerat and began to be a

Indomitable resolution of Aurangreb terror to the empire. In these years of strenuous conflict against unequal odds the endurance and bravery of the old emperor is the most remarkable feature. He planned and controlled every movement in person at the same time as he superintended the minutest affairs of his extended empire. An octogenarian, he suffered storm and flood, privations and fatigue, and when

storm and flood, privations and fatigue, and when in his eighty-ninth year the worn out veteran withdrew his dejected remnant into Ahmednagai, it was time for him to die and confess his failure. The empire was in a state of anarchy beyond example. Disaffection was rife beyond the Vindhyas the Mahrattas had been formed by resistance and trained by warfare into a powerful nation, no future emperor could hold un disputed sway south of the Narbada. Aurangzeb died

His death, 1707 in the fort of Ahmednagar, telling his beads, repentant of his sins, and morbidly afraid of death. His is beyond dispute a grand figure, in spite of all his narrowness and folly. He was throughout true to the colours of his faith, such as he understood them. His life was tragedy, and a vast failure, but he failed grandly

Bernier, in a letter to the great French minister Colbert, has some interesting remarks upon the condition of India in the early part of Aurangzeb's reign Hedwells on the extreme fertility of certain provinces, such as Bengal, and notices the prosperous condition of

manufactures in various parts of the empire. At the same time there were vast tracts of sandy and barren country, badly cultivated and thinly peopled. "Even a considerable portion of the good land remains untilled from want of labourers, many of whom perish in consequence of the bad treatment they experience from the governors. These poor people, when incapable of discharging the demands of their rapacious lords, are not only often deprived of the means of subsistence, but are bereft of their children, who are carried away

Oppression of the persontry and seek a more tolerable mode of existence either in the towns or camps, as bearers of buildens, carriers of water, or servants to horsemen Sometimes they fly to the territories of 1 raja, because there they find less oppression, and are allowed a greater degree of comfort "* The men who held the high positions at court, in the army and in the provinces,

were known to Bernier and other Europeans as Omrahs,

that is, Amirs Many of these were Persians of high birth, but Aurangzeb attempted to clear his court of Persian Shiahs. The Omrahs who, it must be noticed, were not a hereditary nobility, drew immense salaries calculated on the number of horse which they nominally commanded. Some were paid in cash, others by jagirs, but despite their wealth they were constantly in debt owing to the huge presents etiquette required the emperor to receive. It is not improbable, therefore, that they fleeced the persantry. Land not alienated as jagirs was known as the king's domain land, there the revenue collection was handed over to contractors, who like the Roman tax farmers lined their own pockets at the expense of the provincials.

Defective revenue system

Thus the well considered financial methods inaugurated in the reign of Akbar seem to have been discontinued by his great-grandson. The up

keep of the royal court must have cost fabulous sums. The thousands of slaves and attendants, the stables, the luxurous travelling equipages, and above all the scraglio, were a tremendous drain upon the resources of the kingdom. No doubt Shah Jahan spent more in these ways than his son, but on the other hand his

Expense of the court, Bernier and other contemporary observers lay great stress upon the

fact that the emperor was sole land-owner in the state Jagirs were only held during office, or for life at most, nor was there the same security of occupancy amongst the peasantry as at the present day . The governors were therefore tyrannical and bent on enriching themselves as speedily as possible, while the peasantry had little incentive to work and render the land more productive Slavery and universal ignorance are two further blots upon the page of Mogul civilization in India Bernier's conclusion is worth quoting "The country is ruined by the necessity of defraying the enormous charges required to maintain the splendour of a numerous court, and to pay a large army maintained for the purpose of keeping the people in subjection No adequate idea can be conveyed of the sufierings of that people The cudgel

^{*} Constable s Bernter, p 205

and the whip compel them to incess uit labour for the benefit of others, and driven to des A lurid picture of pair by every kind of crueltreatment, Mogul civilization then revolt or their flight is only pre-

vented by the presence of a military force I he misery of this ill-fated country is increased by the practice which prevails too much at all times, but especially on the break ing out of an important war, of selling the different governments for an immense sum of hard cash. Hence it naturally becomes the principal object of the individual thus appointed governor, to obtain repayment of the purchase money, which he borrowed as he could at a runous rate of interest "* He had also to find the me ins of making valuable presents, not merely to the emperor but to a "anzir, a cunuch, a lady of the scrigho and to any other person whose influence at court he considers indispensable "The imporor, indeed, kept news writers in every province to report on the conduct of officials, and Aurangach adopted a wholesale system of espionage, but the watcher and the watched often entered into collusion to the great detriment of the public government of India seemed to Bernier less venal than that of Turkey, but the main errors of government which as he says naturally bring about tyranny ruin and misery, were common to all the three great oriental monarchies,—India, Persia Turkey These characteris tics must to some extent be regarded as the natural tendencies of despotic government in a country where a large proportion of the people are unwirlike and where the institutions of the harem and slavery flourish With exceptions and qualifications, therefore, Bermer's picture will stand as a presentation of the state of India during the Mogul period. Akbar was too strong a man to tolerate such abuses, and the traditions of good govern ment fashioned by him to a large extent survived under Jehangir With the latter years of Shah Jahan, however the government underwent a change for the worse, and Aurangzeb, despite his high ideal of kingship and his in defatigable exertions, failed to remodel the administra Native historians say that he was too weak and Corrupt officials were unafraid of punishment and hence, though the emperor was himself the model of equity in his court, injustice flourished in the proxin-Aurangzeb enquired into all abuses and often recti-He even remitted various items of faintion fied them but the governors seem to have gone on collecting the abo lished cesses Thus were the best intentions of a conscien tious ruler defeated by the defects inherent in the system Things might however easily have been worse, and the colouring of Bernier's picture is perhaps slightly height ened by the contrast between eastern conditions and those

government not radi cally bad

of Europe, -a contrast which must Aurangzebs early have greatly impressed any European traveller Moreover, he had acquain tance with only a few of the provinces

of the empire 7 But even if Aurangzeb's early government be allowed a fur meed of praise, the conditions of the empire during the last period of his reign must be admitted to have leen awful Suspicion and intolerance alienated able servants and counsellors, whole tribes and

The central authority became weal and shanations: dowy, there was no restraint on the oppression of the magnetes. Index seemed once again on the eve of dis integration into a number of separate Linedoms. In the

pite to in irchy

words of Khafi Khan, a friendly his But his later men tori in, "from reverence for the injunctions of the law (the law of I lum) he did not make use of punishment, and

without punishment the idministration of a country cannot be maintained. Dissensions had an en amone his nobles through rivilry Society plan and project if it he formed can e to little food, and every enterprise shich he undertool was low in execution, and failed of its object The explanation of this future is incomplete if it does not Livistress on sur ingrebs religious intoler ince and his un sympathetic mind but the fact of fulure is patent to all

During the reign of Aurang zeb the European settle ments in India had been mere ising both in number and importance. The Dutch continued

the Lucepean ettle ind completed the overthrov of the ment in Inda Portuguese power in India and Portugal lost her possessions and her trade Ceylon

Goa, Durand Damann alone remained. But the commerci dinheritance of the Portuguese was both confested between the Dutch and the Linglish - For a short time at the close of the 17th century the Dutch were the createst I prope in power in Asia but their most successful efforts, as noticed above,* Its in the Islands of the Lastern Archipelago - From about 1700 Holland began to decline

in Lurope, with the result that her Dutch complete over power in the cist declined also throw of fortugue of Inglind and Irance were now the rising commercial forces in India

The foundation of Lughsh trade in the Indies and the mercise of their settlements have been adverted to under the reigns of Jehangir and Shah Jahan. Lurther progress is to be noted during. Aurangeeb's long reign The island of Bombis pissed to

But Dutch prestness Charles II from Portugal as the shorthrid down of his Portuguese wife. It was in 1669 transferred to the East India Company who made A prosperous town soon spring it their western capital up where lately a meagre fishing village had existed Here the Linglish factors governed and administered their own land, creeted their own mint, and strengthened then

position by a fort. When Surat had been the western centre of the Company, English Dutch and Portuguese settlements had all existed defencelessly side by side under the eye and control of a Mohammedan governor The change to a position of indepen Growth of Lnglish settlement dence and territorial jurisdiction was

not the result of any ambition for empire, for the directors of the Company still had no thought but for trade. But the growing anarchy and the lawless depredation of the Mahrattas necessitated a change of policy Aurangzeb's mismanagement of his em

Important change of beginnings of English territorial rule in India The Company during this time maintained and added to its factories on the Coromandel Coast, and also obtained a firmer foothold in Bengal 1686 the English moved from Hugh to Calcutta, so that the seventeenth century witnessed the foundation of the three Presidency towns of the British Empire

^{*} Bernier 1bid, 230 † It must also be remembered that the village communities of India were The must also be remembered that the village communities of India were better calculated to protect the poor from the rapacity of the great than the feudal system which in the seventeenth century still survived in the greater part of Europe. In spite of all, arts and industries flourished in India. The condition of the I reach persont before the revolution was if anything worse

^{*}See p 23 supra





Growth of Railways in India

Court of Directors having settled on the piesent standard gauge of 5 ft 6 in, Mr (now Sir Alexander) Rendel being the Consulting Engineer. The Midras Railway in 1852 made an unsuccessful attempt to obtain sanction for constructing railways by direct State work.

The year before any railway was opened, the gross trade of the country amounted to Rs 32 crores and had stood at that figure for some time Lord Dalhousie's celebrated minute was signed on April 20, 1853, and was one of the most statesminlike documents that has

ever been pennea The Governor-General consider ed that railways are National Works, and that they should there fore be controlled by Government under regulations settled by law, which should not pe needlessly or verationsly ex acting He ad vocated immediate construction of trunk lines from Calcutta to Lahore, from Bombay to tap this one, from Bombay to Mad ras, and from Madras to the Malabar Coast on the West He foresaw the great social, political, and commercial advantages of such lines, which were to form the main arteries of a complete network of railways

The system of Government Con sulting Engineers was first introduced in 1849, one being allotted to each local Government These were

subsequently reduced to four, viz, the State, Madras, Bombay and Burma Although the Court of Directors had approved a large scheme and had ordered surveys on August 17, 1853, during the three years from 1853 to 1855, only 169 miles were opened, being an average of 56 miles a year The cap tal outlay during that period was Rs 5,50,00,000 or Rs 1,83,33,000 a year The average gross earnings per mile per week were Rs 81, the average percentage of working expenses to gross earnings was 54,33, and the percentage of net earnings

to capital outlay 0.72 The first sanction to the construction of the North East lines of the Great Indian Peninsula was given in 1850, the South East line was sanctioned in 1854. The first opening of any portion of the following lines for traffic occurred in this period, viz, the East Indian and the Great Indian Peninsular.

LORD CANNING 1856--1862

By the end of 1855 Lord Dalhousie's projected

railways were being actively carried out, but progress checked by the Mutiny of 1857, although it was due to the guaranteed system that the work was not stopped alto gether, for funds were available which, under State control, would have been required elsewhere The invaluable service rendered to the military by the short length of line then opened พาร again object lesson the authorities After the Mutiny in 1857, which was estimated to have cost the railways some three milhons sterling, the friction that had arisen between the civil engineers and the consulting Royal Engineers in India became acute that the matter was brought before the House Commons,

ASSAU BENCAL RAHWA1 - Cut and Cover at Tunnel No 82

brought before
the House of
Commons, the
result being that
a compromise was
effected, though it would have been much better had
the matter been fought out India passed directly
under the Crown in 1858 and the reign of the Hon
East India Company came to an end
On March 13, 1860, the late Sir Juland Danvers,
then Secretary to the Rayly ay and Telegraph Depart.

then Secretary to the Rulway and Telegraph Department of the India Office, presented his first report on Railways to Sir Chailes Wood, Secretary of State for India This was prepared from information received In it he stated that the 5 ft 6 in gauge had been finally

adopted, and that the rate of exchange had been fixed at 22d per rupee The 99 years' guarantee, which it had been finally decided to grant to Indian Railway Companies, applied to all monies paid into the Govern ment Treasury and expended with the sanction and approval of the Government, on the closing of the capital account the surplus subscribed was to be re turned to the Companies Whenever the profits were less than the guarantee of 5 per cent, the Government had to make it up, any surplus was to be equally divided between the Companies and the Government, and when the amount so received covered all that the Government had disbursed (plus simple interest), the whole of the profits were to go to the Companies, the railways might be suirendered for actual cost at 6 months' notice, the Government having the option to purchase after 25 or 50 years at the mean value of the shares during the previous three years, taking over the rolling stock at a valuation or, as an alternative, they could pay a corresponding annuity, land was given free Sir Juland stated that the experiment of direct Govern ment construction had been sanctioned for a line from the Iron Works recently established at Num Tal, to join the East Indian or Oudh and Rohilkhand Superintendent, Mr Sowerby, was of opinion that the cast iron rails which he was able to turn out might be advantageously used, at a saving of Rs 13,900 per Allusion is also made in the report to Light Railway and Tramway lines, and it is stated that Col H Barr, of the Bombay Army, had received permission to spend £300 in conducting experiments to prove the value of a danger fog-signal which he had invented On the map attached to the report the following lines are shown as "suspended," viz,—Amritsai to Delhi, Jubbulpore to Allahabad, Kooshtea to Ducca, Sholapore to Bellary, and Salem to Ramnad

In the next year's report (1860 61), Sir Juland states that the Oudh Railways were stopped the Secretary of State having decided not to guarantee the capital for any new undertaking, the jupee having risen to 24d. The Governor General consequently reported that construction should go on by all means on the lines already sanctioned, but that no more works would be commenced till those in hand were com The urgent need for feeder roads was begin ning to be realized, and the Madras Government had determined to build 1,083 miles of them A letter is noted from Mr W B Wright, the Locomotive Superin tendent of the Madras Railway, in which he says -"I have one native, by name Gunnagee Row, whom I think competent to drive a locomotive, but his own want of self reliance precludes him from being intrusted with the charge of one " He further states that, the apprentice system has now on the whole been attended with marked success, and that India must become the nursery for further requirements Sir Charles Wood, then Secretary of State, wrote to the Government of India that he awaited with interest the result of the trial it was proposed to make of a cheap description of tram road on some short feeder of considerable

The first portion of the following important lines were first opened for traffic in Lord Canning's time, viz, the Bombay-Baroda and Central India proper,

the Madras proper, and what is now the North Western (State) proper, all on the 5 ft 6 in gauge. The metre gauge appeared for the first time on the South Indian. The average earnings of all the lines during the six years was Rs. 140 only per mile per week, the average percentage of working expenses to gross earnings was 48.75, of the net earnings to capital expended 1.10 of miles opened per annum 236 (or 1.418 in all), giving a total of 1.587 miles open for traffic. The yearly average of capital outlay was Rs. 475 lakhs (or 281 crores in all) giving a total expenditure of Rs. 34 crores

LORD ELGIN 1862—1863

Sn Juland Danvers was now designated Govern ment Director of the Indian Railway Companies and attended all their Board Meetings His reports contained a synopsis of those received from India In these years a good many schemes for Light Railways were launched, but did not float long The shortage of rolling stock, which has been perennial, was begin ning to be felt, especially on the Sind line Lord Elgin travelled by rail to Benaies, and Sir Bartle Fiere opened the Bhore Ghaut on April 24, 1863, 42,000 coolies had been employed on this work at one time Government Director reported that the number of passengers and tonnage of goods using the rail was in proportion to the inducements offered by low rates and sufficient accommodation, but that, at the same time, low rates and remunerative rates were not synonymous and that, for instance, it was doubtful, whether it was possible to carry passengers with a profit at less than $\frac{1}{2}d$ per mile Iron sleepers were first introduced and 755 miles of them were ordered They were Greave's' circular cast non bowls, and were laid down on the Punjab line, on the Eastern Bengal, and on the Madras Railway, where they did good service in all kinds of ballast, and even without any ballast at all

The Eastern Bengal Railway, on the 5ft 6in gauge, was the only one of which any portion was first opened in Loid Elgin's time. The average mileage completed being 460 (or 920 in all) making a total of 2507. The average earnings per mile per week dropped to Rs. 140 while the percentage of working expenses to gross earnings 10se to Rs. 60 04, and of net earnings to capital 130. The average capital outlay was Rs. 950 lakhs (Rs. 10 crores in all), making a total of Rs. 53 crores up to date. The Tapt. Bridge, 1,875 ft. the old Nerbudda. 4,688 ft., and the Soane Bridge, 4,726 ft long were opened during this period.

LORD LAWRENCE 1864—1869

Soon after taking up the reins of office, Lord Lawrence decided that further application of the agency of Companies was undes rable, moreover, there happened to be a plethoia of Government Engineers for whom work had to be found, and although they had no experience on ralways, they were put in charge of the construction then—and have been transferred on promotion ever since—from road and town surveyor's work and from the Irrigation Department, to the Railway branch. As one of them naively confessed some 20 years later, at the Society of Arts, they "had to learn

a good deal, and necessarily at the expense of the State " The Governor General sent home a despatch embody ing his views, but Sir Stafford Northcote did not adopt them entirely, for he considered that "commer cial" lines should be built as heretofore leaving "poli tical" lines to be constructed by the Stite, for which purpose a fixed annual charge would be made Lawrence dissented and before he left India he sub mitted a minute virtually stopping any new guarantee recommending State construction, and the withdrawal of all initiation and practical direction of measures from the India Office In his opinion 3? millions sterling could be invested in railway extension every verr, and in twenty years the verrly charge would be reduced to one million He estimated that the gross average earn ings would reach £30 per mile per week by 1889 (this they have never done), and considered it would be a mistake to reject the narrow gauge. In the same year the Secretary of State entered into new agreements with the Great Indian Peninsular, and the Bombay Baroda and Central India, without consulting the Government of India, who protested—but too late. The first unguaranteed railway 23 mues long from Nalhati to Azimgunge, was opened by the East Indian Branch Company in 1863 In 1864, the big cyclone occurred in India and caused great damage to railways and in 1866 the terrible Orissa famine diverted funds from Public Works In March, 1864, Sir Charles Wood issued his famous despatch, giving rules as to what should be charged to Capital and Revenue respec This was a bone of contention between tively Government Consulting Engineers and the the Agents of the Companies for years So long as there was no chance of a surplus over the guaranteed interest, the Agents tried to charge everything to Revenue, but whenever the receipts gave signs of a possible surplus they fought tooth and nail to save Revenue as much as possible Especially acute became these struggles as the time approached when the lines might be taken over by Government

With the extension of railways, the want of feeder roads was felt more and more. It was during this period that the Calcutta and South Eastern was started to serve a new Port Canning on the Mutla, whereby the dangers of the Hooghly were to be avoided, and steamers were to ply to the Straits Chittagong and Akyab Messrs Brassey, Wythes and Henfrey held two impor tant railway contracts one from Calcutta to Kooshtea. and the other from Amritsar to Ghaziabad, but they did not make much money over them, owing to causes which affected all public works floods, famines, the Mutiny and the subsequent rise in the price of labour Sir Juland Danvers again reported rolling stock to be inadequate, that the cast iron bowl sleepers were answering well, that steel rails were being introduced, that feeder roads were delayed for want of funds, that natives of India only held one per cent of the rail way stock, that the form of debenture contract had been settled, that coal cost from 58s to 72s a ton, that Karachi harbour should be improved, that mails only took 5 days between Calcutta and Bombay, that the Provident Fund had been established, that the Madras Railway had carried 23,000 tons of food to the famine districts, at 1/8 pie per maund per mile, that 40

inches of rain fell in two days on the Sind Railway, nearly wiping it out, that he idvised the formation of a Reserve Fund for renewals, that it would cost (1,300,000 to make good flood and other damage on the Great Indian Peninsula

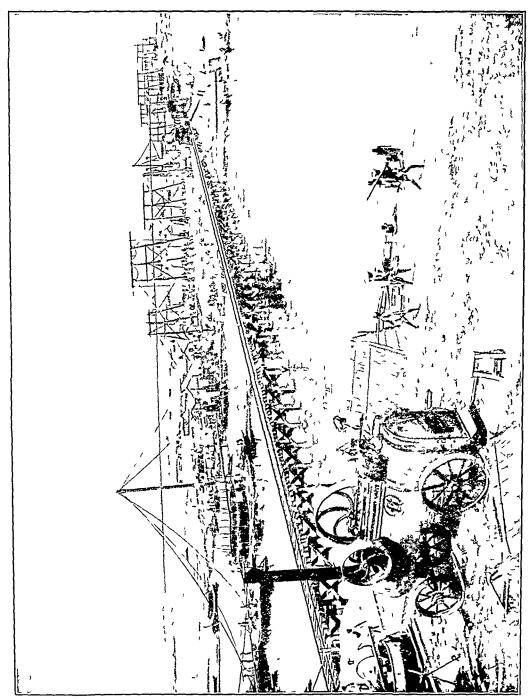
The deficit in 1868 1869 stood at Rs 1661/ laklis, but meanwhile the total trade of the country had usen from Rs 32 to 89 ctores, and more than com

pensited the immeral loss on guarantees
During Ford Lawrence's Viceroyalty the only railway of which a portion was first opened was the Oudh and Rohilkhand, a 5 ft 6 in line. The average gross earnings per mile per week were Rs 207, a sensible advance, the average percentage of working expenses to gross capital was 54 62, also a great improvement, while the average percentage of net carnings to capital rose to 293, the average mileage opened during the five years was 300 (total 1,501), giving a grand total of 4,008 miles, the average capital outlay was Rs 620 laklis (total Rs 31 crores) bringing the grand total up to Rs 81 crores, or, at the present rate of exchange, 56,000,000 pounds sterling. The following bridges were opened during this period.—The Tonse, 1,194 ft, the Jumna (Allahabad), 3,150 ft, the old Cheyer, 3,500 ft, the old Papagni, 1,410 ft, the Jumna (Delhi), 2,697 ft the old Chitravati, 2,670 ft, the old Penner, 1,830 ft, the Beas, 3,828 ft, and the Jumna (Saharanpur), 2,675 ft long

LORD MAYO 1860-1872

Under Lord Mayo the State construction of railways mostly on the metre gauge, was encouraged in every way, the guaranteed system practically came to an end for a time, and special engineers were engaged both in England and from America to teach the Government Engineers their new duties The authorities had been so chaimed with the capabilities of the Festiniog narrow gauge line, handling mineral traffic in a mountainous country, with the load nearly all down hill, that they applied the same system on a grand scale in the plains of India, for the conveyance mostly of light and bulky produce in every direction To facilitate this, the maximum running dimensions were enormously enlarged, a comparison of these in the proportion of the gauges Whereas on the metre gauge shows this plainly rolling stock 8 ft 6 in wide and in ft in height was allowed on the 5 ft 6 in gauge only to ft 6 in and 13 ft 6 in respectively were allowed. In proportion to the gauges, these latter wagons would have been 14 ft wide and 17 ft 8 in high, whereby their capacity per foot run of train would be increased by 75 per cent Or to put it the other way, had the metre gauge stock been restricted to the comparative size of the 5 ft 6 in the wagons would have been only 5 ft I in wide and 6 ft 7 in high and their present capacity would have been diminished by 64 per cent

The Indian Engineering College at Coopers Hill was established in 1871 to give Civil Engineers a special training The North West Provinces and Oudh were again ravaged by famine in 1869, and a cyclone occurred in the same year which was almost as disastrous as the one five years previously The most remark 'at done at the Gorai Bridge, on the of the Eastern Bengal Rail-



CURZON GANCES BRIDGE -Allahabid Fyzabad Railway Sinking Brick Piers duing the Dry Season



way, where one of the iron piers in course of erection (14 ft in diameter, 45 ft long, weighing 120 tons) was overturned and never found again, although a new

pier was sunk on the same spot

The railways, owing mainly to an absurdly high standard of construction, had cost £17,000 a mile, and the financial equilibrium having been upset by all the disasters of recent years, the guarantee system fell into disrepute, and the Government thought they could do better themselves, as money could be borrowed on easier terms by the State Lord Mayo, though he duly appreciated the great services which the Guaranteed Companies had rendered to India, hoped to profit by their experience for the benefit of the future lines, in economy at least, if not in efficiency Sir Juland Danvers reported that modified terms of contract with Companies had been formulated, and that the rules guiding the State were exceedingly The Scinde, Punjab and Delhi Railway complex settled a contractor's claim of £213,598 for £45,000, at a cost of £34,000, spread over 10 years arbitration Major Taylor, who was killed in the Naini Tal landship shortly afterwards, introduced the American traindespatcher system on the Port Canning line, where it answered very well, as the traffic was eviguous and not tied to time particularly. It was decided to build the Punjab Northern line as cheaply as possible, on the metre gauge, and for a speed of 15 miles an hour, the Indus Valley was to be on the same gauge, although connecting two 5 ft 6 in lines, the Volunteer force was started, the seer was made equi valent to a kilogramme, and the Suez Canal and the Mont Cenis Tunnel were opened Lord Mayo strongly recommended the metre gauge on the ground of econ omy A Gauge Committee was appointed, Sir R Strachey, Colonel Dickens, Sir John Fowler, and Sir Alex M Rendel recommended the narrow gauge, Sir John Hawkshaw estimated the cost of a light broad gauge as £800 a mile more than the narrow gauge, by choosing which Sir Douglas Fox considered that £17,000 a mile would be saved But the military authorites, whose views were represented by Lord Napier, were dead against its adoption. In the end the idea of confining the metre gauge to feeder lines was entirely dropped

During Lord Mayo's Viceroyalty, which came to a sudden end in such a tragic manner, the average earnings per mile per week rose further to Rs 265, the per centage of working expenses to gross earnings also rose slightly to 55 34, while the average percentage of net earnings increased to 3 22. The average number of miles opened was 359 (total 1,066), making 5,074 in all, the average capital outlay having been Rs 2,00,23,000 (total Rs 6 crores and 70,000), making Rs 90 crores and 70,000 in all. The rate of exchange had dropped to 22½d

The Sutley (Ludhiana), 5,733 ft, the Nerbudda, 1,052 ft, the Tungabadra, 4,060 ft, and the Gorai, 1,750 ft long, were the bridges opened during this period

The Secretary of State permitted the reading of a paper by Mr W B Thornton, CB, Public Works Secretary, India Office, at the Institution of Civil Engineers, on February 2, 1873, which gave rise to an animated discussion lasting over several evenings and called the "battle of the gauges," from which, however, it was impossible to come to any definite conclusion

Lord Northbrook 1872—1876

In Sir Juland Danvers' reports for this period, we find chronicled extensive floods and more famines, and that 842,696 tons of food grains were poured into the distressed districts. Sir Juland complained of the large amount of capital locked up in stores, he pointed out that Karachi harbour was of great importance, and again urged the construction of feeder roads. Out of 61,940 proprietors of Indian Railway securities only 388 were Natives, showing that the savings were either spent on jewellery, and otherwise squandered in wedding or other festivities, or that they were hoarded, while the class of money lenders charged, and obtained with ease, one anna in the rupee per month, or 75 per cent with very little risk.

If foreigners chose to invest their capital in works of utility to India, of which capital quite one half was spent in India, and they were content with small profits and a comparatively low rate of interest for many years, it seems difficult how any intelligent person of any nationality whatever can justly describe these small profits as a drain on the country's wealth Indeed it has been averred that the material gain to India in one year, due to these works of utility, is more than sufficient to cover their whole capital cost, or, in other words, that the ultimate gain to India represents cent per cent per annum on the capital, which gain goes mainly into the pockets of the Natives themselves

One million sterling was advanced, under certain conditions, for the Holkar State Railway, it was finally decided to build the Punjab Northern on the standard gauge as a light 5 feet 6 inches railway, and to convert the Indus Valley to the same gauge In Rajputana a station to station rate was tried for a short

In 1875, Rs 4 crores were allotted, mostly for railways, but war and famine intervened as usual, and reduced the funds available, and nearly all the money was spent in the above conversion

Quite a crop of reports appeared Sir Alexander Rendel reported that the high cost of working Indian railways was due to insufficient loading of wagons. This is partly explained by the amount of empty running which, of course, brings down the average load very considerably. If the small upward traffic were encouraged by minimum transport charges, not only would the average loads be raised, but also the receipts per wagon mile, and, moreover, in cases, where ships have to call in ballast for homeward cargoes they would be encouraged to bring more imports. This would have a tendency to lower freights all round and further encourage traffic. These points have not received much attention.

Sir Bradford Leslie reported in favour of the system adopted at the Punjab bridges, of protecting them with stone deposited in the river, which as it subsides is kept up to a certain height until, in course of time, it forms a continuous submerged weir across the river with a long down stream apron. The piers being single cylinders it matters not what course the water tales in flowing under the bridge. These Punjab structures have very shallow foundations and Sir Bradford's advice was

not followed by the Government engineers, who built piers of every shape, except the cylindrical, and depended on the enormous depth to which they were sunk as a protection against scour. The practice was also adopted of confining the river within very narrow bounds and of forming very long protecting banks. All this was costly in the extreme in the first instance and as the protecting banks are maintained out of revenue, no statistics are available showing what they have cost since they were put down. As the large bridges are very long and very numerous in India, their maintenance must be a very scrious drain on the revenue.

began to erode the nose of the promontory. Stone was thrown in, which at once aggravated the crosion and the scour and eventually two deep bass were formed, one by the direct current above the other by the back water below, until the promontory assumed the form of a spur or per 800 feet long, in 80 feet of water, made up of stone and brief blocks. The rivers were kept at bisy for two years at a cost of nearly 20 kilds of rupees and when the fight ceased by command the rivers cut through the root of the spur and in 24 hours what had been the right bank of the river became its left shore. These cases illustrate some of the extraordinars

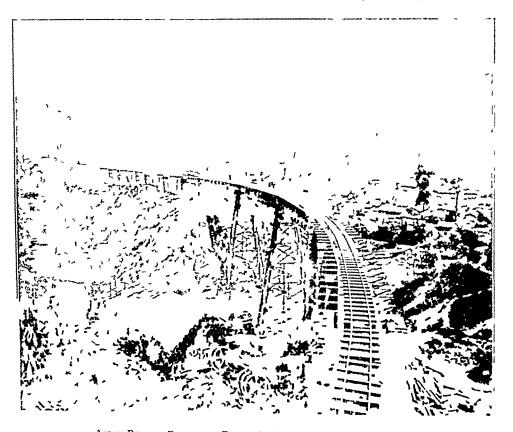
difficulties which have enhanced the cost of Indian Railways

Sir Guidford Molesworth wrote a report on Indian Railway

At the Soc ets
of Arts in I on
don Col A
Romain Wragge
advocated the
use of condensed
peat fuel

A Director General of State Railwayswasap pointed in 1874

During Lord Northbrook's rule, parts of the following lines were opened for traffic for the first time, 112 5 feet 6 inches or "Standard" gauge the Nizam's, metre gauge, the Raj putana Malwa and the Tirhoot 2 feet 6 inches gauge, the Gaek war s. Dabhoi



Assam Bengal Railway -Djung Bridge No 134 showing Trestle

Col F S Taylor, RE, reported on the so called "Goalundo Spur!" The Eastern Bengal Railway had been extended to the junction of the Ganges and the Brahmaputra, and arrangements had been made at great expense for dealing with the traffic coming down both rivers. At the junction of the rivers the Ganges took a sweep to the North and ran right round a promontory, before falling into the larger river. On this promontory, which show edindications of being composed entirely of hard clay, the railway station, bungalows, river sidings etc. had been laid down, as the shape of the land had not altered for many years. However with the Ganges in flood and the bigger river low, a tremendous current swept by the right bank and

The average gross earnings per mile per week fell to Rs 51 41, while the percentage of net earnings to capital outlay rose to 3 90. The average miles opened increased considerably, to 480 (total 1,467) bringing the grand total to 6,541, while the average capital outlay wis Rs 2,73,90,000 (total Rs 10,95 58,000), making a grand total of nearly 101 crores of rupees. The Fapti, 2,556 feet, the Kistna, 3,855 feet, the Gumti (Jaunpur), 1,472 feet, the Rangunga (Bareilly), 2,277 feet, the Ganges (Rajghat), 3,040 feet, the Ravi (original), 3,217 feet, and the Ganges (Cawnpur), 2,850 feet long, were the bridges opened during this period

LORD LYTTON 1876—1880

Major General J S Trevor, Director-General of State Railways, issued his first Report on the lines under his charge, from the beginning to the year 1879-80 This work was printed in Calcutta, covered 345 pages of foolscap size and contained 7 maps

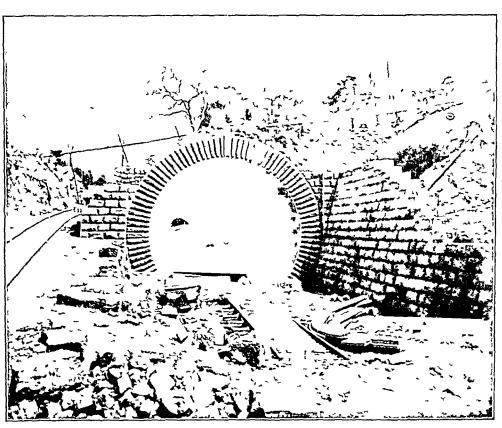
He stated that in the 10 preceding years 2,500 miles of State Railway lines had been opened, and that 1,500 were under construction, the total cost having been Rs 2,633 lakhs, 1,351 miles were required to connect the Punjab and Sind, to reach Peshawar, and for Frontier

lines, all on the standard gauge At the site of the Attock Bridge over the Indus there had been a flood 150 feet deep and the traffic at Sukkur over the same river was being taken across by a wagon ferry, by which even loco motives had been crossed with very few accidents inalthough decd, the current was very rapid and the giest whirl pools and eddies very dangerous To facilitate the low ering of locomotive on the pontoon a young assistant engineer greased the rails of the incline, in thetemporary absence of the ferry master and proceeded to lower the engine, which took charge, crossed the pon-

toon and plunged into the water. General Trevor also gave full particulars of all the other State lines, mostly of the metre gauge and constructed departmentally, except in the case of the Rajputana and Scindia lines, on which contract work had been very successful, the former was expected to cheapen Sambur Lake salt in the Ganges valley. The Director General reported that an arrangement had been made for a steam tramway from Siliguri to Darjeeling by private enterprise. This was the present Darjeeling Himalayan 2 feet gauge rulway, for which the late Su Franklin Prestage ob tained such favourable terms, and which was a great success from the beginning, the work done by the little locomotive engines having never been beaten anywhere

Ton mile and passenger mile statistics are given in the Report, they were first started on the Dhond-Manmad line in the year 1878 79, and have been found most useful and instructive ever since

The Famine Commission of 1880 insisted on the importance of railways and wanted 5,000 miles urgently, while 20,000 miles would make India safe, but the Afghan war had diverted all the available funds. A Parliamentary Committee on Indian Public Works which sat in the previous year recommended that the funds to be borrowed by the Imperial Government for "Productive" Irrigation and Railway Works should be limited to 2½ millions sterling, and Lord Lytton

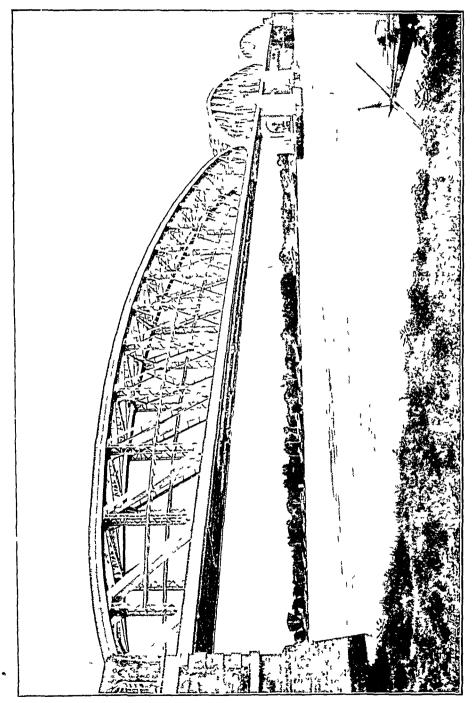


ASSIM-BENGAL RAILWAY - Cut and Cover to Slip at No 25 Cutting, Tunnel 12

on June 8th, 1880, proposed that light cheap lines should be sanctioned on the separate financial responsibility of Provincial Governments. In the same year Col J G Medley, R E, proposed a Clearing House, but this was considered premature, and it has never yet been established, the distances being considered too great for the working of such an establishment

The Railway Conference first met and the Provident Fund and Hill Schools were first started in 1880. This year was also remarkable for a great development of State lines and for the introduction of private enterprise in their construction. The Nizam's State Railway was also started at the suggestion of Government.

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THE "JUBILEE" RAILWAY BRIDGE OVER THE HOOGHLY RIVER -Built by Sir Bradford Leslie KCIE

from 30 to 40 lbs per square inch would be sufficient to overturn railway carriages, and that if a pressure of 56 lbs were provided for with a factor of safety of 26 or 28 lbs, all danger would be avoided

In Lord Ripon's time the average gross earnings per mile per week reached their maximum up to that time, viz, Rs 289. The average percentage of working expenses to gross earnings also rose a little to 40 68, a figure it has never reached since then while that of the net earnings to capital outlay showed a considerable rise to 5 32. The average number of miles opened per annum was 617 (total 2,469), a considerable rise, the grand total reaching 11,527 miles. The average capital outlay was a little over Rs 672 lakhs (total nearly Rs 27 crores), while the grand total was nearly Rs 155½ crores

Portions of a great number of lines were first opened during this period, viz, standard gauge, Bhopal Itarsi, Rajpura Bhatinda, metre gauge, Bengal and North-Western proper, Deoghur, Dibru-Sadiya, Ledo and Tikar Margherita colliery, Jodhpur-Bikanei, Rohilkhand and Kumaon proper, Lucknow Bareilly, Southern Mahratta proper, and Mysore Section, 2 ft 6 in gauge, Eastern Bengal (State) branches, and 2 ft gauge, Jorhat State

The Nerbudda (new), 4,688 feet, the Attock, 1,522 feet, another Nerbudda, 2,306 feet, the Jumna (Muttra), 1,146 feet, the Kistna (Bijapur Branch), 3,392 feet, and the Bhima, 2,342 feet long, were the bridges opened during this period

LORD DUFFERIN 1885—1888

The Bengal Nagpur in 1883 and the Indian Mid land in 1887 were started with a permanent (Sterling) guarantee of 4 per cent and a subsequent quarter share of profits

During 1885 the trouble on the frontier diverted funds from the commercial and protective railways to costly military lines, which were never expected to earn any direct profits

In 1886, the Scinde, Punjab and Delhi was taken over by the Government and merged in the North-Western, the whole of the company's officers were retained, except those of the Engineering Department, only one Assistant Engineer being kept on

It was in this year that 14,500 miles of railway track in America were converted to the 4 ft 81/2 in gauge in two days A great deal of the rolling stock had previously been made interchangeable and the prepar ations for the conversion had taken a long time and caused some inconvenience Including all gauges the total mileage opened in India at that time was under Sir Theodore Hope, the Public Works Minis ter at this time, pointed out the evils of the London Stores Department, and that the uncertain supplies of funds and material were most wasteful and unbusiness As to funds, the Government were embarrassed by famines, by a possible war with Russia, and by the continuing fall in exchange, as to the London Stores Department, it has gone on to this day on the old lines, discouraging the Indian firms, who were quite ready to supply materials direct and to submit to any inspection considered necessary But no inspecting

officers were appointed in India, and the old sickening delay and uncertainty of delivery continued to hamper the engineers and to add enormously to the cost of The Secretary of State in July 1886 warned the Government of India not to increase the taxation railway construction In spite of all these difficulties the average number of miles opened during Lord Dufferin's Viceroyalty increased to the highest up to that date, viz, 736 per annum (total 2,945), making a grand total of 14,525 miles open, earnings per mile per week dropped to Rs 273, nevertheless, the average percentage of working expenses to gross earn ings also dropped to 49 07, and that of the net profits to capital outlay rose to 540, a record up to then The average capital outlay per annum was nearly Rs 940 lakhs (total over 3,759 lakhs), the total outlay rising to Rs 19,3041/3 lakhs Portions of the following lines were first opened during this period, viz, standard gauge, Tarkessur, metre gauge, Gaekwar's Mehsana, Eastern Bengal (State), Dacca Section, West of India Portuguese, Morvi and Thaton Duyinzaik (Light) The Oudh and Rohilkhand was taken over in 1889

The Solani, 1,750 feet, the Rapti, 1,445 feet, the Jubilee, 4,932 feet, the Ganges (Balaweti), 7,886 feet, the Kanhan, 1,237 feet, the Kaiser-i Hind, 4,293 feet, the Victoria, 2,720 feet, the Dufferin, 3,507 feet, the Gandak, 2,176 feet, the Jumna (Kalpi), 2,626 feet, and the Kistna (Poona Branch), 2,340 feet long, were the bridges opened during this period

LORD LANSDOWNE 1889—1894

In October 1889, the Government of India sub mitted a programme of extensions to the Secretary of In November, Lord Cross advised that private enterprise should be encouraged in the construction and working of railways, and he endorsed the opinion expressed in 1884 on the subject of gauge, trunk lines should be of standard gauge (by this time this had become impossible), metre gauge should be confined to extensions and branches of the present metre gauge lines or to cases where the traffic would be so light that the broader gauge would be too expensive, although such traffic as offered would have to suffer the "undoubted disadvantage" of a break of gauge The Governor General, however, disapproved of the Secretary of State's financial proposals and considered it would be better to increase his borrowing powers he proposed another Railway Commission In 1889 a second battle of the gauges was fought at the Institu tion of Civil Engineers, with the result that the various advocates of standard, of metre, and of other gauges, alone or mixed, remained unconverted, so that the Government was left without any guidance It was, however, clearly shown that a really light railway had never been constructed in India Until 1890 the area served by the metre gauge lines was fairly well defined, but after that the gauge which was fixed upon for use on feeders was used for lines competing with the standard gauge In 1890 the whole available balance of the Famine Insurance Fund was devoted to railways

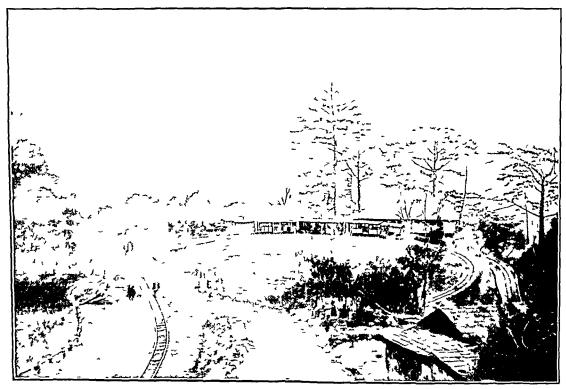
When the South Indian was taken over by the Government, the Secretary of State made a 20 years'

contract with the Company, in November 1890, to work, manage and maintain the lines, a million ster ling was to be raised (reckoned to be equivalent to Rs 140 lakhs) The first chaige on the receipts was to be 3 per cent for three years, after that 3½ per cent, the second charge was to be 3 per cent on the Govern ment's capital outlay, the surplus to be divided in proportion to the capital found. At the end of the contract the capital was to be repaid in sterling in London, at par Lord Cross in February 1890 again praised the "Company" system, and the Government of India replied in October, repudiating any leaning either way

In 1892, rupees half a crore were lent to the Companies for extensions In 1893 a subsidy was offered,

Portions of a great number of lines were opened, viz, standard gauge, Godra Rutlam Nagda, Petlad-Cambay (Anand Tarapur Section), Delhi Umballa Kalka, Madras (North East line), Bezwada Extension, Jammu and Kashmir (Native State Section), metre gauge, Palanpur Deesa, Bengal Dooars proper, Jetalsar Rajkot, Jodhpur Bikaner (Bikaner Section), Jodhpur Hyderabad (British Section), Guntakal Mysore Frontier, Hindupur (Yesvantpur Mysore Frontier), Kolhapur, Mysore Nanjangud, 2 ft 6 in gauge, Cooch Behai, Powayan (Light), 2 ft gauge, Dandot (Light)

The Weinganga, 450 feet, the Sheonath (No II), 2,250 feet, the Betwa, 2,166 feet, the Ken (Banda), 1,558 feet, the Betwa (Lalitpur), 1,446 feet, the



THE LIFUTENANT GOVERNOP'S TRAIN ON CHINBATTI LOOP OF THE DARJEELING HIMAI AVAN RAILWAY

a rebate on 10 percent of the interchange traffic, this was estimated to yield 4 per cent, but these terms were strictly adhered to in the case of the Ahmedabad Parantij only

In these years the average receipts per mile per week fell considerably, to Rs 256, and yet the average percentage of working expenses to gross earnings diminished also, being 48 32 per annum, while that of the net earnings to capital outlay receded to 5 28 The average capital outlay per annum was well over Rs 8 crores (total Rs 40 crores, 13½ lakhs), the grand total being Rs 233,17,87,000, or at 16d to the rupee, well over 1,554½ millions sterling

Lansdowne, 1,520 feet, the Penner (new), 1,830 feet, the Eeb, 1,461 feet, the Damoodar, 2,664 feet, the Shersvat, 3,650 feet, the Chitravati (new), 2,670 feet, the Barakur, 1,850 feet, another Penner, 1,740 feet, the Chumbal, 2,714 feet, the Alexandra (reconstructed), 3,976 feet, the Papagni (new), 110 feet, and the reconstructed Ravi, 1,465 feet long, were the bridges opened during this period

The Lansdowne Bridge at Sukkur, over the Indus rapids, was constructed by the Resident Engineer, Mr F E Robertson, CIE, without any staging or false work, and with only one assistant, an Eurasian

I ORD ELGIN

1804-1508

In April 1898 the late Mr. Horace Bell read a paper, at the Society of Arts, I ondon, in which he mentioned the fact that as 6,000,000 people were being relieved, there were no funds available for Railways, and that of late vers, private enterprise had practically been discouraged, although no other field for investment was as safe and certain as that of Indian Railways. The discussion that followed showed in a remarkable manner the divergent opinions held by high officials, past and present. The word "assisted," said Mr. Bell, seemed to have been invented to screen the fact of guarantees, to which Colonel Marriat added that while Government 3 and 3½ per cent rupce paper was at par and while money in the bazar fetched 15 per cent, an offer of 3 per cent, guarantee was absurd

Mr Bell pointed out that Japan had done four times better than India in Railways in proportion to their respective populations. Although he had been Consulting Prigineer to the Government of India, or, perhaps because of that fact, Mr. Bell advocated the abandonment of the State Administration. He urged that the Government should only control and inspect railways, and that large systems were a mistake, in India at any rate with their hordes of more or less inefficient and unreliable employees and in the trying Sir Richard Straches, on the other hand, considered big systems beneficial, but agreed that Government control should not extend to petty matters On this, Sir J. A. Bunes observed that, with these enormous interests and these enormous armies of employees under State Agency, either political or pecumary corruption was certain to arise. The Charman the late Mr. J. M. McLean, Mr., alluded to the luge number of Royal Ingineers in the Railway Department and said that it was not likely they would willingly let go their hold— It has very justly been pointed out that a Royal Engineer in the Public Works Department, as a rule, received more pay than the officers of the Corps who stuck to their military duties, and more than the Civil Engineers in similar offices. So that the R. E. was rewarded for becoming less efficient is a military man and for learning work at the public expense, for which civilians had undergone a life long truning it their own expense. The Chairman ilso considered the metre gauge a "colossal blunder," while Sir Owen T Burne asserted that I ord Mayo only intended metre lines as feeders, and Mr. W. Martin Wood had recorded an opinion that they were lighter, more compact, and more economically worked than the broad gauge According to Sir Juland Danvers, railways, being com mercial concerns, were better in the hands of those who could manage them on commercial principles

In this year, Government, finding that previous terms did not attract capital, revised them and offered those which Colonel Marryat characterized is "absurd," viz, a 3 per cent guarantee or a rebate limited to 3½ per cent. These proved no more attractive than the previous ones, and it was found that the method could not be relied upon for a steady supply of funds. The attempt to finance through the District Boards having also failed (only 158 miles having been constructed in Bengal),

Government had to find funds out of their own resources. Meanwhile but little money had been available for expenditure on open lines, which were consequently starved. So in 1805, the East Indian Rulway was allowed to get an Act of Parliament authorizing the raising of capital for construction and equipment Sanction was given to spend Rs. 20 crores in 3 years—but famine frontier wars and falling exchange again intervened and prevented this the East Indian Railway. Act becoming inoperative

Since 1896 all expenditure on Guaranteed and State lines has been included in the Railway Programme. In 1807 the Railway Branch of the Public Works Department was reorganized, at having been found that the subordination of the Department to a Civilian Member of Council did not adequately provide for a final expert authority. So a Secretary was appointed with three expert Deputies as Directors of Traffic and of Construction and an Accountant-General

During the five years of I ord Elgin's reign, the average gross carnings per mile per week were Rs 249, a slight fall. Although the average percentage of working expenses to gross earnings per annum was improved to 47 43, that of net carnings to capital out livedid not responde and fell a little to 5.20. The average number of miles opened also fell to 707 (total 3,536), giving a grand total of 22,024 miles. The average capital outlive per annum increased greatly, to Rs. 11.78,20,000 (total Rs. 58,91,43.000), making a grand total of considerably over Rs. 292 crores.

Portions of a great number of lines were opened for the first time in spite of all difficulties, they were — standard gauge Nagda Uji un, Tapti Valley, Bhopal Uji un Bina Goona-Baran, Kolar Gold Fields, Southern Punjab, metre gauge, Ahmedabad Parantij, Mymensingh Jamalpur (Jiginnathganj Branch), Cawnpore Burhwal, Assim Bengal proper, Dhrangadra, Jamangar Karaikkal Pei ilim, Tanjore District Board, Udi upur Chitor, 2 ft 6 in gauge, Rajpipla, Barsi Light (it had taken 14 years' hard work to get this well-paying line sanctioned, although the only concession was free lind), Farakeshwar Magra (Light), Texpore Balipara (Light), 2 ft gauge, Howrah Amta (Light), Howrah Sheakhala (Light)

The Ramgunga (Moradabad), 2,126 feet, the Kistna, 3,684 feet, the Jachum (reconstructed), 4,899 feet, the Rushu Kuliya, 1,598 feet, the Penner, 1,990 feet, and the Elgin, 3,695 feet long were the bridges opened during this period

I ORD CURZON . 1899—1905

The closing of the Mints enabled allotments to be increased, but the Gujer it and Decem famines in 1899 1900 again caused curtailment, so that the position be came unbearable—for either the construction of much needed new lines, or the ordinary development of old lines, had to be stopped, and the traffic baulked in every way. So, as usual, a middle course, sufficient for neither needs, had, perforce, to be taken. The needs of open lines, which have never been fully satisfied, were considered a first charge—but it is evident that these needs increase with the increase of mileage open, as well

as by the constant development of the traffic and by mereasing wear and tear of permanent way and rolling-stock. So that, were the yearly sum allotted a fixed one, new lines would in time, cease to be constructed long before the total of 60,000 miles even now considered necessary would be completed. However, during the last five years of Lord Curzon's vicerovalty, the financial condition of the country improved yearly, so that for 1906 7 a record allotment of Rs. 15 croics (no millions sterling) was reached. A three years programme, including 13,000 miles of new lines, is now being worked out, and the sensible course has at list been taken of allowing lapses of one year, up to a limit of Rs. 50 lakhs to be reallotted to the next

After 1899 the Administration Reports were all printed in India, and in that year the first "History of Railway Projects in India" appeared. The next year the two parts were merged into one, and the report was

very much abridged

The late Mr. T. Robertson passed two cold seasons in India and reported in 1903 on the Indian Railways at Lord Curzon's request. He recommended the form ation of a Railway Board, and in March 1905 this was constituted. Mr. Robertson also made many other recommendations, some of which are being carried out.

There was a large amount of work done in Lord Curzon's time An average of 1,043 miles of line per annum were opened and 6,255 in the six years, bringing the grand total up to 28,295 miles. In spite of this great accession of new lines the average gross earnings per mile per week rose to Rs 205, while in 1905 they were Rs 283, or nearly £20 This, of course compares very unfavourably with the earnings of the home rail ways and yet, in spite of all these drawbacks, the average percentage of working expenses to gross earnings was but 47 72 per annum, and that of the net earnings to capital outlay as much as 5 36 per annum, while in 1905 it rose to 5 92 per cent, a result at which most railway undertakings in the world would only be too delighted if they could arrive. The average verily capital outlay was Rs 1,0694 lakhs or Rs 7,4843 lakhs in all, of which no less than Rs 14,07,99,000, or close upon ten millions sterling, were spent in 1905 brought the grand total of the capital outlas to Rs 3,66,93,94,000, or £244,626,267, yielding 6 per cent per annum The North Western Railway which for many years was a very poor paying line, has now become one of the chief contributors to this splendid result, since the opening of canals along the Upper Indus

The lines of which portions were opened during Lord Curzon's reign, were as follows, viz—standard gauge Petlad-Cambay (Tarapur Cambay Section), South Behar, Agra Delhi Choid, Ludhiana Dhuri Jakhal, Southern Punjab' ''

Mourbhan, and Parlal medi (Light). Raipur Damtan (branch Bengal Nupur Rulway). Truputtur-Krish nigiri, Kushak uth Kohat, Novishera Durgai, Barreet Basirhat (Light). Bul-traipure Behar (Light). Cutch State, Kalla Simla, 2 ft gause Gwalior (Light). The Great Indian Pennishla was taken over in 1900.

The Phulger, 2,064 feet the Subantila 1 908 feet, the Batuner, 2 900 feet the Bridmin 4 640 feet, the Bernpa 1,728 feet the Solan 1,204 feet the Barah, 1 368 feet the Som (Dehri), 10,052 feet, Mahanadi, 6 912 feet, kurd har 2,212 feet kuthpor 2,890 feet (ordaven, 0,000 feet Roopen run, 2,632 feet Indus (Kotis) 1 948 feet tunna 1 417 feet Games (Gurmul htesm) 2 332 feet, Leesta 2 116 feet, Girra, 1,572 feet, Goldell, 2 260 feet, Dharla 1,620 feet, 5 mkosh 1 458 feet the Cove 1 736 feet the Dehm, 1,118 feet, the Luripur 2 912 feet, and the kosh, 3,173 feet long, were the bridges opened during

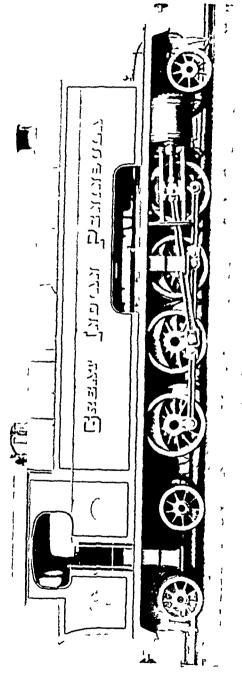
this period

The total trade of India in 1904 1905 had rism to over Rs 318 crores with a balance in favour of the country of Rs 30,21 75 000. The apprepare tonnage of goods lifted in 1905 was 51 940 000. The average rate per ton per mile for all descriptions of goods being 51 pic or just under 1d. The total number of passengers was 248 160,000. The iverage rate charged them for ill classes being 2 17 pie per mile just over Id the average distance travelled being about 40 miles. In the employ of ruly is there were no less than 436 348 natives, only 0,175 Lurasians and 6535 Luropeans, 6,007 children, apprentices, and workmen attended the rulway schools, and ficulties are given for children to attend other schools. The numbers of skilled work men who have passed through and are still in the locomotive and carriage shops is very great indeed, and the spread of technical education by these means has been most beneficial. The total output of the Indian collieries was 8,430,000 tons ind only 107,750 tons of Lightsh and foreign coal were imported-of these amounts 2,760,000 and 18,230 tons respectively were consumed by the railways

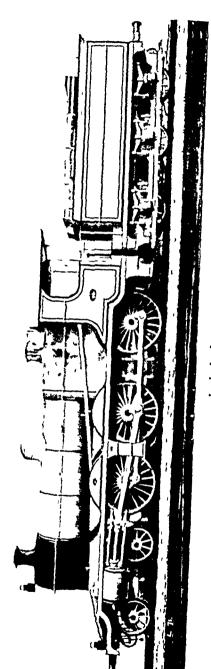
LORD MINTO

The Bombay, Baroda and Central India Railway was taken over by the State on the 1st January 1906 In 1907, the Madras Rulway, the only guaranteed line remaining, was taken over by the State, and it has been decided by the Secretary of State that the junction of the reorganized ruly is with the Great Indian Peninsular system will be at Ruchur, and that the Bengalore Madras Section shall be worked by the Southern Mahratta line, the South Indian Railway being ic coided running powers to Madras over this section. The following State lines are leased to Companies, 11: -Bengal Nagpur, Indian Midland, Assam Bengal, Burma, Southern Mahratta and the Lucknow-Barcilly Section of the Oudh and Rohilkhand There are six lines worked on the so called Branch lines system, besides these there are Companies' lines guaranteed under new contracts, District Board lines, Assisted and unassisted Companies' lines, and Native and Foreign State lines, the balance being State lines worked by the State or by Companies

TYPES OF INDIAN LOCOMOTIVES



G I P I OCOSIOTINE



I I IN I OCOMOTINE



When the Nagda Muttra line has been completed, it is considered that there will be only three trunk lines left for construction, viz —The Bombay Sind connection, the joining of the Assam and Bengal railways, and the so called North to South Standard Gauge railway Another important line will be the Kundwa Akola Basim Railway which will similarly link up the North and South metre gauge systems The Marwai Kotah link will greatly benefit Karachi, where also it is proposed to form a Company for the purpose of building various light railways in the province

At the last Railway Conference allusion was made to the simplification of the Goods Tariff—this is in hand at last and will be of inestimable advantage to trade in general. The lowering of the minimum tariff has also encouraged traders, and if railways were only allowed to take full advantage of their geographical and geological positions, and the Government could only be induced to share more of its profits with investors, railways and their consequent benefits would

increase amazingly

Coopers Hill College has been closed after a life of 35 years. It was built to accommodate 125 students and the average number has been 46. Of these 35 per cent dropped out, 24 per cent failed to pass the final examination, and about 40 per cent obtained appoint ments. The course was very costly, as the number of professors was out of all proportion to the number of

students

The third "Battle of the Gauges" took place at the Institution of Civil Engineers in London after another interval of 16 years, when a paper by Sii Frederick R Upcott, K C V O, C S I, was discussed on the 30th January, 1906 Sir Frederick invited the criticism of the members on the two questions (I) whether the cost and confusion which will necessarily accompany gradual conversion outweigh the advantages of uni formity, and (2) whether the growing needs of the traffic may not be met by continuation and extension of different gauges, treating each case on its ments without attempting to define any definite scheme The majority acquiesced in the view that a com promise rather than any drastic remedy appeared to be preferable, and Sir Frederick, as President of - the Railway Board, stated that this compromise agreed substantially with the policy now being carried out by the present Government He did not, of course, commit any future Government to the same policy

The sum of Rs 15 crores was provided for 1906 7, of which 891 lakhs was for open lines (Rs 382 lakhs of this being for rolling stock) and the balance for construction Of this amount, Rs 14,61,16,000 (£9,741,100), were actually expended, being nearly a crore of rupeas in excess of the expenditure for the year 1905 6 At the end of April, 1906, there were 28,607 miles open and 3,297 under construction and sanctioned, total 31,914, or only a little over half the mileage considered necessary by many authorities. The amount of work done, though creditable under all the circumstances of the case, still compares unfavourably with many other countries, both as regards miles per inhabitant and per square mile of territory.

other hand, the total trade of India had further risen in the financial year 1905 6 to Rs 321 crores, or a ten fold increase in less than 60 years, and showed a balance in favour of India of over 33½ crores of rupees, the enormous increase over the figures quoted before the introduction of railways being almost entirely due to their growth

The estimate for 1907 8 provides for the expenditure of Rs 131/2 croies (£9, 000,000), a reduction of 10 per cent on the provision of the pievious year The programme for this year, as originally framed, contemplated an outlay of Rs 15 croies Financial considerations, however necessitated its reduction to Rs 12 crores, for which figure it received the Secretary of State's sanction It was subsequently increased by Rs 1½ crores, thus bringing it up to its total of Rs 13½ crores Of this amount, Rs 1,0131/4 lakhs (£6,755,000), has been divided between general open line requirements and additional rolling stock requirements in the following proportions —Open lines, 445¼ lakhs rolling stock, 568 lakhs The balance of the grant goes to lines under construction, for owing to the re duction in the programme, the heavy demands on account of open lines, and the large mileage of lines at present under construction, no expenditure on new lines was proposed for the year

In their memorandum on the Budget in 1906, the Railway Board definitely stated that the then standard of equipment of Indian Railways in the matter of roll ing-stock was below the requirements, and acting on this opinion they made the very large provision of 382 lakhs, as noted above, to be spent for rolling-stock during the year 1906 7, and this grant was all expended For 1907 8, the provision of 568 lakhs which they made, met in full the demands of all railways for grants for rolling-stock for that year

On the 1st April, 1907, there were 29,571 miles of line open, while the mileage under construction or sanctioned for construction was 2,873, making a grand total of railways completed and in hand at the commencement of 1907 8 of 32,444 miles Compared with the results of the previous year, the revenue account for 1906 7 shows an improvement of Rs

23,35,0**0**0 (£155,900)

The bridging of the Lower Ganges is a matter that has been before the Government of India for the past seven years, in some shape or form question came into being in 1890, and discussion has been going on ever since Up to the end of 1906, the main point at issue was as to whether the bridge should be built at Sara or at Godagiri If it were located at the first named place, it would connect the broad gauge and the narrow gauge sections of the Eastern Bengal State Railway If, on the other hand, Godagiri were selected as the site, the bridge would connect the new broad gauge line from Ranaghat to the Ganges, with the new narrow gauge line from the river to Katihar A third proposal was imported into the discussion by the Railway Board towards the end It was in the nature of a compromise, and the Board held that the provision of a bridge at Sara or at Godagiri would not meet satisfactorily the full requirements of trade as a permanent arrangement They felt confident that the building of a bridge on

one ate would be followed eventually by the building of a bridge on the other, and to avoid this, and to enable the metre gauge system to e ter Calcutta, they proposed to bridge the i vir at Rampur Boalia A Committee, styled "The Ginges Bridge Committee," was appointed by Government at the end of 1905, to consider the various schemes, and to report on the project they recommen led as offering the best settlement of the complex question of location. Their report was submitted to Government in April, 1907, and in it the Committee, for rearons set forth in full detail, came to the following conclusions—(1) That the metre gauge ought not to be extended south of the Ganges, and The (2) that the bridge should be built at Sara Committee further emphasis d the fact that they cons dered the construct on of a bridge over the Lower Ganges a matter of extreme urgency and that it was the univer at hope and expectation of the commercial commun ty and of the general public that the investi gat on and report of the Comm ttee would result in immed ate and practical action The report was forwarded to the Secretary of State in July, 1907, with a recommendation from the Government of India that the proposals of the Committee be accepted, and here the matter rest at present

Among the important proposals made in 1903 by the late Mr T Robertson Special Commissioner for Railways was one for the relaxation of the singency of the control exercised by Government over the a airs of Railway Companies. In 1904 the Secretary of State called for the recommendations of the Government of India in regard to the matter, but the formation of the Railway Board had first to be effected, and the importance and intricacy of the proposals

necessitated much discussion before the case could be la d before the Secretary of State Under arrange ments hitherto existing, the control of Government has been exercised through the medium of Consulting Engineers, who in Madras, Bombay and Burma worked under the local Governments, and in the other provinces were directly subordinate to the Railway Board Railway Companies have hitherto had no original powers of sarctions, and have had to obtain such authority from or through the Consulting Engineers With the sanction of the Secretary of State, the Government of India have now decided that certain powers of sanction and admiristration should be delegated to the Companies' Boards, and that they should be requested to entrust their agents with a considerable portion of their own powers, Government reserving the right to reimpose more detailed control should the circumstances of any line require it. It has also been decided that the appointment and duties of Consulting Engineers should be abolished, and that Government Inspectors should be appointed to carry out the duties prescribed in Chapter 4 of the Railway The change in organization will be brought into force from the 1st June, 1908

A Committee has been appointed by the Secre tary of State to examine into the details of railway administration and finance in India, and the members of the Committee, Sir Walter Lawrence and Sir James Mackay, accompanied by Mr A Brereton as a railway expert from the India Office, will arrive in this country some time in December, 1907 Their inquiry will include a report on the constitution and working of the new Rulway Board



The Geology of India.

From a geological point of view India is divided Penins lite, extra-penin ultrand Info into three regions (1) the Peninsular area, in which there are no moun Gangetic tep ons tains in the true sense newer than palæozoic, (2) the region of relatively recent mountains (tertiary in age), constituting the ranges of the Himalava, Baluchistan and Burma, and (3) the great Indo Gangetic alluvial plain. These divisions are in timately connected with the physiographical history of the countries that now constitute the Indian Empire In the Peninsula all the rocks of Upper Palaozoic age, or newer, are either horizontal, or dipping at comparatively low angles. The principal type of disturbance that has affected the peninsular area during the Upper Paleozoic and later times is the formation of clongated, almost rectilinear, trough faults which are of paramount importance in the mineral resources of India, as they account for the formation and preservation of the Indian coal basins. The central and western portion of the peninsular area is occupied by an enormous outcrop of heavy, black, volcanic rocks known as the Decean trap. It constitutes flat topped hills, built of piled up flows of basaltic lava, which have remained almost undisturbed since they were crupted in creatizeous times. The faulted troughs constituting the coal basins occupy relatively small areas, principally in the castern and north eastern part of the peninsular region. Outside these coal basins the rocks constituting the peninsular area, wherever they are not concealed by the Decean trap, are mostly of palregroic or older age, with the exception of a fringe of cretaceous and tertiary strata at some points along These later beds, found in the neigh the ser coast bourhood of the present sea coast, are the only fossilis increase in the peninsular area absence of such beds from the remainder of the peninsula indicates that this portion of India has been a continental area ever since the earliest geological times, and is one of the oldest land areas of the globe

The rocks constituting the extra peninsular area, that is the mountain ranges of the Himalaya, of Baluchistán and of Burma, contain, in addition to a substratum of rocks identical with some of the older ones of the Peninsula, numerous representatives of marine fossilifetous strata of almost every geological age, from Cambrian to Tertiary. The area remained occupied by the ocean until late in Tertiary times, when the upheaval of the Himalaya was completed.

The great Indo Gangetic plain, which now joins together the essentially different peninsular and extrapeninsular areas, consists of alluvial soil mostly derived from the disintegration of the Himalaya, whose rapid

accumulation has finally obliterated all remnants of the arm of the sea which might still have subsisted between the two areas

The geological formations of India may be classified into the following divisions

Recent formations
Pleistocene
Siwalil System (Phocene and Upper Miocene)
Pegu or Mekran System (Lower Miocene and
Ol gocene)
Eocene
Mesozoic or Secondary
Permian and Upper Carboniferous
Lower Carboniferous and Devonian
Silurian, Cambrian, and Pre Cambrian
Oldest Sediments
Fundamental Guess or Archean

THE ARCHEAN

THE Archean, if one restricts this name to the rocks underlying the oldest undoubted sediments, consists essentially of crystalline gneissose rocks that must have solidified under conditions quite different from those that attended the formation of later rocks. These gneisses represent, in part at least, the original crust of the globe, when the surface of the originally molten mass first began to solidify.

As in other parts of the world, the Archiean system. in India is largely made up of rocks whose composition and structure resemble those of the intrusive rocks of the family of the granites or diorites—granular aggregates of quartz, felspar (silicate of alumina and of alkali or lime), and various ferro magnesian silicites. such as amphibole, mica of certain kinds, or, less fre quently, pyroxene These rocks differ from many of the true intrusive granites and diorites of later ages owing to the pronounced parallel arrangement of their constituting minerals, producing the structure known as gneissose. In addition to the parallel arrangement of the minerals within the rocks, the whole mass is often arranged in parallel layers of rapidly virying composition. In some of these rocks felspar is scarce or absent, and thus they pass from the condition of gneisses to that of crystalline schists. Amongst the most peculiar types of this class are the sillimanite schists of Orissa discovered by Dr Walker, and named by him "khondalites" (Memoirs of the Geological Survey of India, Vol XXXIII), also the corundum bed of South Rewa, in Central India, the manginiferous garnet-bearing schists and gueisses discovered by Mr L L Fermor, and called by him the "kodutites" There are many outcrops of garnetiferous mica schists

It is sometimes uncertain whether these schists are true members of the Archean system, or metamorphosed representatives of some of the subsequent normal

sedimentary series

Three well marked types have been recognized by the Geological Survey of India amongst the rocks of the Archem These are the BINGM (NTISS (Oldham, Memoirs of the Geological Survey of India, Volume I, 1859), the BUNDILKHAND (NIISS (Mallet, Manual of the Geology of India, p. 10, 1870), and the NILGIRI or MOUNTAIN (NIISS (King, Mem G S I, Vol. AVI, p. 125, 1880)

The Bengal gness is characterized by its varied composition and conspicuously band ed structure. It often calibrate rapidly alternating layers of sharply contrasted composition, some of which calibrate the characters of gnessors granites and diorites while others are more of the nature of schists. The schistose types are very numerous, including quartzose, microcous and hornblendic schists, garnet bearing, magnetite bearing, sillim unter bearing, and manganiferous gnesses and schists, such as the khondalites and kodurites already mentioned, and many other varieties

The Bundelkhand gness, which, in its type are i, usually has the appearance and Bundelkhand Gneiss composition of a coarse typical pink granite, was once regarded as the oldest rock in India At a time when gneisses were regarded as meta morphosed sediments, the coarseness of crystallization was thought to be related to the degree of metamorphism, and consequently to the antiquity, of the rocks As the oldest rocks of the earth's crust must include representatives of its first definitive consolidation from its original molten condition, it is evident that the Archæan must consist largely of rocks formed under conditions different from any with which we are acquainted in the present stage of the globe's history The Bundelkhand gness, when the nature and composition of the rock are considered, closely resembles an intrusive gramte, but differs from undoubtedly genuine granitic intrusions owing to the enormous area which it occupies When the Archean rocks first consolidated, the primordial atmosphere contained in the state of vapour the totality of the water that now forms the ocean, the volatile chlorides, as well as a large propor tion of the carbonic acid and oxygen that have now been absorbed by various solid rocks. It is quite con ceivable that under the enormous pressure of this primordial atmosphere, molten masses may have spread out over large areas, and on solidifying assumed the granitic form which at later periods could only have been developed under similar conditions of pressure and tem perature in the depths of the earth's crust Instead of being older than the Bengal gneiss, it is quite possible therefore that the Bundelkhand gneiss may be resting on a substratum of previously solidified rocks Much of the banded structure of the Bengal gness is due to the injection of molten rocks in the midst of previously solidified gnesses or schists. Some of these intrusions may be contemporaneous in age with the outflow of the Bundelkhand gnesss Thus, the Bundelkhand gness, instead of being the oldest rock of the peninsula, may be newer than some parts at least of the Bengal gness

Where granted bands of appreciable width constitute part of the Beng il gness, they weather into the characteristic groups of piled up blocks of huge dimensions known is "tors". The same mode of weathering affects the Bundell hand gness constitutes principally a plan, surrounded by cliffs of the much harder vindhy in sandstones. This plan is travered by great rectilinear, wall like ribs of quartz, constituted by huge veins of that substance many mile in length. They give

One sem of undelk and a special character to the semest of Bundell hand and afording great

facilities for the creation of artificial labor

I ower Bundell hand is the principal area of this form Distribution of Pengal of Lineiss in Northern India The Gereis and Bintel Bent il gueres occupies large surfaces khand Ceres in Behar Manbham Orissa, Reva, the Dhar Porest, and Guprit As regards Southern India, so far is can be made out from published accounts, the schistore guesses that have ben described as Karnath guess or Salem empss seem to correspond with the facies of the Bengal guess while the facies of the Bundelkh and greiss recalls that of the massive granitoid red paces which prevails in the upland of Southern India and has been distinguished under various names such as Bilighit or Hosur gness Its eastern confines from the Palir to the Kistna are dinest continuous with the edge of the ghits, and it is typically developed in North Arcot in the Kadapah sub division, in the eastern part of the Bellary district, where it is triversed by gignitic quartz veins similar to those of Bundelkhand, in the Karnul district, and thence all over the eastern portion of the Hyderabid territory up to the higher reaches of the Godacari river. It has been largely used as a building material throughout Southern India. The magnificent build ings of Vijavanagar, in particular, are constructed of Hosur gneiss

The Central gness of the Himalaya is, in part at least, of Archain age, but in the present state of the survey cannot always with curtainty be distinguished from intrusive granites of Tertiary age, neither are the available descriptions sufficient to tell whether the Bundelkhand gness or Bengal gness faces is more particularly represented. Still more scanty is our knowledge regarding the Fundamental gness in the Burmese and Malay region, though the system is there also represented.

The gnesses constituting some of the principal hill masses of the Decen, such as the Nilgins the Palms and the Sheva roys, also closely resemble intrusive rocks except for the great dimensions of their outcrops. They are granted rocks of a peculiar dark grey to black colour, and their distinctness from the other rocks of the Peninsula was first recognized by the late Dr. King, who proposed for this series, the appropriate name of "Ailgiri" or "Mountain Gness".

The same rock is also observed near Madras and in the tributary mahals of Orissa, and in the districts of Ganjam and Vizagapatam. The leading features of these rocks are their dark colour and the constant

presence of the mineral enstatite (essentially silicate of magnesia) They also frequently contain garnet Some varieties contain quartz, others do not, but even when there is a high proportion of quartz, this mineral assumes a dark bluish colour, which does not affect the general dark tinge of the root, producing a very different appearance from that of the more familiar types of quartz bearing rocks, such as ordinary granites and diorites. The heavier and less siliceous types of the Vilgiri or Mountain gness belong to the class of rocks known as "norites" while the more siliceous ones come nearer to the composition of diorites and granites from which they differ nevertheless owing to an unusual It high percentage of magnesia and ferrous oxide and by the presence of enstatite, a mineral characteristic of rocks that have a low percentage of silica but generally about from the usual types of highly sile ceous rocks such is normal granites or diorites Amongst these eistatite bearing rocks, the types that most nearly approach a granite in composition have been called by Mr. T. H. Holland "charnoclates," cause the tombstone of Job Char Charouse nock, the founder of Calcutta,

consists of a slab of that rock. The material is much appreciated as an ornamental stone oving to its hand some granular appearance and dark colour

Somewhat related in composition to the Vilgiri guess and perhaps belonging to the same geological system are the anorthesites of Bengal so called on account of their being largely made up of time bearing felspars related to the mineral anorthise.

In Southern India, where the Hosur gness, the local representative of the Bundelkhand gness comes into contact with the Nilgiri gness, there is some evidence pointing to their being both of about the same age, while we have the direct evidence of stratigraphical superposition to prove that the Dharvars, the local representatives of the oldest sedimentary system, are never than the Hosur gness.

Thus, although the investigation is not vet complete, there is every reason to regard the Nilgiri gness as a member of the Arch can System either of the same age as the Bundell hand gness, or somewhat never

OLDEST SEDIMENTARY SYSTEMS

AFTIR the consolidation of the original crust of the globe you constituting the Arch can rocks, a time must have come when the temperature was sufficiently lowered for the vapours contuned in the primordial atmosphere to condense and form the oce in quently to this event, the temperature of the earth's crust could no longer vary except within narrow limits, while the temperature of the inner core of the globe continued slowly to decrease, and is still decreasing at the present day. In order to adjust itself to the contraction in volume which results from this gradual cooling of the earth's interior, the outer crust became corrugated into ridges and furrows. The inequalities thus arising in the earth's figure became gradually more pronounced, and at last some of the troughs absorbed so much of the bulk of the waters, that the general level of the oce in surface sank below that of

the highest ridges or bulges. In this manner the first continents appeared, and as their surface became at once degrided by atmospheric agencies, true sediments bigan to accumulate in the neighbouring parts of the The gradual deepening of the ocean, and the consequent expansion of the continents, by raising these earliest sediments above the sea level, accounts for their rapid removal by denuding agencies. Conse quently they have now almost everywhere disappeared, except where pertions of them have been caught up amidst the folds of subsequent corrugations, such as those which accompany the formation of mountain ranges. The increased depth and thickness resulting from this compression has saved some of these folded portions from being completely removed by denuda-This is why the oldest sediments of the globe are almost entirely restricted to narrow highly compressed synclines Consequently their outcrops assume the appearance of more or less parallel narrow cloneated strips, such as is particularly well shown in the Dharv ir region of Southern India. It is the deepest parts of the original synclines that are thus preserved, precisely those parts where the combined effects of compression and heat have produced the most intense degree of metamorphism, and as this is often enhanced by the contact effects of igneous intrusions, a crystalline facies may be produced which it is some times very difficult to distinguish from that of certain forms of Arch can guesses

Amongst the most characteristic rocks of the oldest sedimentary system of India may be mentioned humatite schists, imagnetite bearing schists and massive beds of humatite and magnetite, massive beds of manganese ore, a great variety of more or less altered volcance beds largely basic, hornblendic schists, which probably represent metamorphosed volcance flows or intrusive sills, various kinds of highly magnesian rocks, such as tale schists, scrpentinous limestones, postones, highly crystalline limestones and dolomites, passing into scapolite gnesses and pyroxene granulites, which appear to be the result of metamorphism from associated granitic intrusions

Single outcrops of this ancient sedimentary series, is a rule, do not contain every one of these forms of rocks, but they always combine a sufficient variety of them to lend to the formation its characteristic facies. The bulk of the formation usually consists of a considerable thickness of slates showing every passage through chaistolite bearing slates and semi-crystalline phyllites to typical mica schists, often with the development of andalusite and garnets. When the slates are but slightly altered, they are not readily distinguishable from those of some less ancient series of the Peninsula, the Kadapah system for instance, but they frequently exhibit the altered schistose facies over large areas with a degree of metamorphism which is only observed quite locally, if it all, amongst the rocks of Kadapah age

Grantic intrusions, varying in size from large bosses to narrow veins, are a frequent feature amongst the outcrops of the oldest sediments. Some of the finely foliated mica schists are, as it were, impregnated with narrow strings of intrusive grantic material, the combination thus produced giving readily the impression of a greess.

Amongst the various rocks of the system, the massive beds of manganese ore and the still more massive iron ores are the most characteristic. Similar rocks occur in some of the divisions of the succeeding Kadapah, but never in such bulky masses. The brilliantly coloured banded jaspers are amongst the most conspicu

Banded Jasper ous rocks of the oldest sediments but they are equally well developed in the succeeding Kadapah. The crystalline limestones, which constitute ornamental stones of unrivalled excellence, are very characteristic of the older system.

With the exception of the rather broadly spread out exposure in Singhbhúm, all the occurrences of the oldest system exhibit, as already mentioned, the structure of groups of narrow synclines, indicating the position of old mountain ranges, most of which have been so thoroughly effaced by ages of continuous denu dation, that they have lost all topographical individuality. It is only in the case of the Arivalli that they still form a very distinct geographical feature, probably because the upheaval of this range was partly renewed in later times.

It is the Arivalli range that exhibits these rocks in greatest variety. They have been grouped into their greatest variety several divisions (Raialo, Ajabgarh, etc.) The continuation of the Arivalli outcrop in Gujrat is known is the Champaner series Another outcrop, probably of the same series, occurs further east, near the town of Bigh, north of the Narbadi Still further east, further up the course of the Narbada, there are some very typical outcrops of the same system in the neighbourhood of Narsinghpur and Jubalpur The well known "Marble Rocks" near the latter town belong to it Various names have been applied to different parts of this outcrop, such as Chanderdip, Majauli, Lora, but just as in the case of the names given to portions of the Arávallı range, they are also merely of local value further extension of this outcrop is found south of the The same rocks also constitute the Son in Rewa Karakpur hills of Behar, where the slate beds which they contain are extensively quarried The outcrop extending from Midnapore to Nagpur has already been In the Balaghat district, they have been des cribed under the name of Chilpi Ghat Series outcrop of the same rocks occurs in Bastar territory In Southern India, a large number of outcrops have been described under the name of Dhirwir Series, the most famous being the synclinal exposure situ ated in Mysore, that contains the Kolir gold-field

The same rocks are found in the Assam plateau where they have been described as the Shillong Series In the Himalayan region, the same rocks are known as the Dahing Series in the Eastern Himalaya, Jaunsar Series in the Chakráta region, Infra Krol (in part) in the Simla region, Vaikrita in Spiti, Panjal (in part) in the Western Himalaya

The same system constitutes the Miju ranges at the head of the Assam Valley, and is largely developed in Burma, where the crystalline limestones, containing the rubles and other gems, perhaps belong to this period

Of the numerous names that have been used by Indian geologists for designating this series, the earliest in date is Champaner (Blanford, 1869), the latest and most popular is Dharwar (Foote, 1886), the most

suitable is Aravalli (Hackett, 1877), as it is derived from one of the most remarkable and one of the oldest physical features of the globe. There is super abund ant evidence that these rocks correspond with the system known in other parts of the globe as the Huroman.

Amongst the rocks that are intrusive in these ancient Arivalli or Dhárwár beds, yet undoubtedly older than the overlying Kadapalis, may be men tioned granites, which are of medium grain when the intrusion assumes the shape of a compact boss, as in the case of the rock known as dome grains in Hazári bigh, but which become extremely coarse grained pegmatites when the shape of the intrusion becomes the of a comparatively narrow dyke. When the pegmatite traverse mica schists, they usually contain marketable mica, as in the pegmatite veins of Rajputana, Hazari bigh and Nellore.

Another group of intrusions probably of the same age, consists of some very interesting rocks containing minerals of the group of the felspathoids, such as the electric syenites discovered by Mr. I. H. Holland at the Sixamala hill in Combatore, and by Mr. Middlemiss in the Vizaga patam hill tracts, and the electric sodalite syenites discovered by Mr. Vredenburg in the Arivilli range. This is perhaps also the age of the "dumtes" (rocks rich in chrome and magnesia) of the Salem district

At a period that is not exactly known, numerous fissures were formed in these ancient rocks, which became subsequently filled by quartz impregnated with metallic minerals, producing mineral veins, the richest amongst which are those containing gold and copper

THE KADAPAH SISTEM.

The orogenic effort that folded the Aravallis, Dharwars, and other ancient rocks, has powerfully affected the Indian Peninsula. Later efforts of the same kind have been comparatively feeble, the latest of these not being later than the Older Palæozoic era. Since Older Palæozoic times, the Indian Peninsula has no longer yielded to distinct corrugation, and has behaved as a rigid portion of the earth's crust. The main periods of orogenic effort have been practically synchronous all over the world, and are of great assistance in identifying rocks with one another in distant parts of the world, especially when the rocks are unfossiliferous or nearly so

Two main periods of orogenic effort have affected many parts of the world during the Palæozoic, one in Silurian times, and the other in the Middle Carboniferous. The Peninsula has been affected by one or perhaps both of them, though in a much slighter degree than by the great post-Huronian upheaval. But the total absence of any fossils, so far as has been observed in beds older than Upper Carboniferous in the Peninsula, introduces an element of doubt in their correlation.

The bulk of the Kadapah System cons sts of shales and limestones Slaty cleavage, varying in degree, is often observed in the shales, but the limestones never acquire the crystalline texture that is so common in

the Aravalla System. As might be expected, the Kadapans are intermediate between the older Aravallis or Dharwars and the newer Vindhyans, not only in point of the degree of alteration, but also in the nature of the rocks constituting the two groups. The shales which are often calcarcous, and the somewhat thin-bed ded limestones are essentially similar to those of the Vindhyan formation, but the Kadapahs also contain some of the characteristic Huroman rocks, such as the manganese and iron ores, and the banded jaspers. It is only the latter, however, that are equally well represented in both formations. These bright red jaspers have been extensively used in the inlaid decoration of the buildings of Delhi and Agra.

There are two main divisions of the Kadapah, each consisting of several series separated from one another by unconformities. The rocks resembling some of the Huronian beds, such as the banded jaspers, are especially abundant in the Lower Kadapahs, while the Upper Kadapahs are more like the Vindhyans Amongst the Upper Kadapahs, one sometimes notices some remarkable conglomerates, or rather boulder-beds

Boulder bed consisting of pebbles of various sizes, some of them very large, scattered through a fine grained slaty or shaly matrix. These peculiar boulder-beds are regarded as glacial in origin

Of the two sub divisions of the Lower Kadapah, the lowermost known as the Papaghin Series has been observed only in the type area of the Kadapah System in Southern India. The upper member of the Lower Kadapah, known as the Bijawar Series, is widely distributed throughout India, and is easily recognized on

Volcanic rocks of Bya account of its association with a grand volcanic outburst, the products of which consist of basic

lavas, sills and ash-beds intercalated amidst the Bija war sediments, and intrusive dykes and bosses of the same composition penetrating through rocks of greater age than the Bijawars. These dykes are interesting as being probably the original home of the Indian diamonds, now found as derived pebbles in the later Vindhyan conglomerates.

The Bijáwars were first described in the State of that name in Bundelkhand (Medlicott, 1860), and were subsequently identified south of the Son River in Rewa, and north of the Narbada River in the Dhár Forest In the type-area of the Kadapahs, where their identity with the Bijáwar Series was not at first recognized, they were described under the name of Cheyair, and near Gwálior they were called the Gwálior Series The Penganga beds of the Pránhitá Valley also appear to belong to this same horizon

The Upper Kadapahs are represented in the typearea of the Kadapahs by the Nallamalai and Kistna Series, by the Kaladgi beds between Belgaum and Kaladgi, and by the Pakhals of the Lower Godávari They are represented in Rewa State south of the Son River, and round the Chhatisgarh basin

In the Himalayan region, the representatives of the Upper Kadapahs are the Baxa beds in the Eastern Himalaya, and the Blaini beds in the Simla region The Haimantas of Spiti are very similar, lithologically, to the Upper Kadapahs Their uppermost beds are of Upper Cambrian age

Throughout the greater part of their outcrops, the Kadapahs dip at moderate or very low angles, and show very little sign of disturbance. Almost horizon tal beds may be observed resting on the denuded edges of closely compressed synclines of Dhirwar strata, showing that a period of denudation intervened between the Huroman upheaval and the deposition of the Kadapahs Nevertheless, along the Eastern Ghits, along the eastern edge of the Chhatisgarh basin, and south of the Son River, the Kadapahs themselves are intensely compressed and folded in such a manner as to indicate that they have evidently formed part of mountain ranges, giving undoubted evidence that in addition to the older period of mountain formation, another set of orogenic phe nomena has affected the peninsula after the Kadapah period

THE VINDHYAN SYSTEM

THE Vindhyan System named after the Central Indian highland that extends north of the Varbada, Son and Damida, and south of the Jumna and Ganges, is a vast formation presenting two principal facies, one mainly characterized by limestones and calcareous shales, the other by enormously massive sandstones rule, the Vindhyan strata dip at low or very low angles, and are even less disturbed than the Kadapahs along the south eastern border of the Arivalli range, and in those places where the Kadapahs themselves have been conspicuously disturbed, the Vindhyans have also been affected by folding and overthrust, indicating that they too have shared in the mountain forming disturb Even in such localities they are not affected to the same degree as the Kadapahs, and it is evident that the main phase in the disturbance of the Kadapah had been completed before the deposition of the Vindhyans and that the Kadapahs had been greatly denuded in the interval

In their type area, which covers an immense territory from Dehri on Son to Hoshangabád and to Gwálior, and from there to Agra and to Neemuch, the Vindhyans consist of four main divisions—a lower division exhibiting the calcareous facies, which is known as the Lower Vindhyans, an overlying division consisting of two enormously massive sundstones known under the names of Kumur and Rewa, separated by some subordinate shales, another division, mainly calcareous and similar to the Lower Vindhyans, which is known as the Lower Bhanders, and lastly, an uppermost division of massive sandstones, known as the Upper Bhander—The calcareous divisions average some 1,500 feet in thickness each, the sandstone ones about 500°

A remarkable group of highly silicious volcanic rocks, varying from rhyolites to quartz andesites, occurs in the Lower Vindhyans Amidst the pebbles of certain Vindhyan conglomerates in Bundelkhand and in Southern India, there occur diamonds (the Panna and the Golconda diamonds), probably derived from the denudation of the basic volcanic dykes of Bijáwar age

There are several other outcrops besides that of the type area of Central India though none of them are so extensive. It is only in the type area that the Bhan ders are represented. The Lower Vindhyans together

with the Kaimur-Rewa sandstones are well represented in the Dhár forest, north of the Narbada, and in Western Raiputana, the latter exposure exhibiting a particularly fine development of the volcanic beds of the Lower Vindhyans, locally known as the Malani beds, from the State of that name All the other Vindhyan outcrops consist mostly or entirely of Lower Vindhyans occupy the greatest part of the Chhatisgarh basin, and constitute the Karnul Series of the district of that name, and of the Bhima Valley The Sullavai sand stones of the Godavarı Valley perhaps belong also to the same formation, unless they represent the sandstone and shale formation known collectively as the Red Shale Series in Rewa, where it underlies the Lower Vindhyans, and yet seems newer than any of the Kadapahs might be regarded as an oldest member of the Vindhyan system Amongst the mountains of Northern India, the Vindhyans are represented by the Deoban Series near Chakrata, the Krol Series of the Simla area, and the Attock Series of the Punjab

The Vindhyan limestones constitute a valuable source of lime, while the sandstones Building materials have yielded the material for the masterpieces of Indian art from the time of Asoka to the present day Amongst the buildings of Vindhyan sandstone may be mentioned the Buddhist stupas of Barhut, Sanchi, and Sarnath, the exquisite temples of Kajraha, the palaces of Gwalior, Delhi, Agra, Fatehpur-Sikri, Amber, Dig, and the magnificent Jumma Masjids of Delhi, Agra, and Lahore According to which beds are selected, it is possible to obtain monoliths of Egyptian magnitude, or flags of the thinness of slates Such a variety of excellent material is obtainable that, in certain parts of India, public buildings and private dwellings, from the flooring to the walls and to the rafters and ceilings are built entirely of stone quantities of railing posts are manufactured out of Vindhyan sandstone, and, until a few years ago, it was the usual material for telegraph posts

FOSSILIFEROUS REPRESENTATIVES OF THE CAMBRIAN AND SILURIAN SYSTEMS

Throughout the rock systems that remain to be mentioned, the presence of fossils removes the element of doubt that affects the attempts at correlating the rocks hitherto dealt with. The outcrops that can be un hesitatingly referred, in India, to the oldest fossiliferous formations of the globe, the Cambrian and Silurian, are relatively of small extent when compared with the vast areas occupied by the formations hitherto mentioned. The oldest of all, the Cambrian, has hitherto been met with only in two localities, the Salt Range of the Punjab and Spiti. The system is well

Cumbrian of the Salt Range, where its principal members are a purple sandstone, an arenaceous dolomite, and a group of bright-coloured shales with casts of salt crystals. The lower member, the purple sandstone, and the uppermost shales are quite unfossiblerous, but numerous fossils have been found in a band of

shales intervening between the purple sandstone and the arenaceous dolomite The fossils are of Middle Cambrian age, and include representatives of the most characteristic of the Palæozoic fossils, the curious crustacea known as trilobites They were discovered by Dr Warth in the year 1888 They belong to the genus Redlichia which characterizes the Lower and The unfossiliferous purple sand Middle Cambrian stone is not unlike the Vindhyans. In the sections of the Eastern Salt Range it is seen resting on a great mass of unstratified clay, in the midst of which are situated the layers of salt from which the mountain range derives But the structure of the range is one of extensive overthrust faulting, and it is probable that the salt marl is not in its normal situation with reference to the Cambrian strata, but is really much newer, and Tertiary in age

Upper Cambrian fossils were discovered by Mr Hayden in the upper portion of the Cambrian of Spiti Haimanta System of Spiti during the These fossiliferous beds, whose aggregate year 1898 thickness is about 1,000 feet, consist of slates with some quartzites and dolomites They overhe with apparent conformity some 3,000 or 4,000 feet of unfossiliferous strata recalling the Upper Kadapah, and consisting of slates, some of which are ferruginous and carbonaceous, and of quartzites These unfossiliferous beds may perhaps represent the Middle and Lower Cambrian Amongst the fossils discovered by Mr Hayden, there are trilobites belonging to the genera Piychoparia, Dikelocephalus and Olenus

The Silurian is not developed in the Salt Range, where the Cambrian is immediately succeeded by Upper Carboniferous beds. In Spiti the Upper Cambrian is unconformably succeeded by an unfossiliferous quartzite, about 1,500 feet thick, succeeded by highly fossiliferous limestones and calcareous shales of a total thickness of some 500 or 600 feet. Amongst the leading fossils are a number of trilobites belonging to the genera Chemurus, Illanus, Asaphus,

cystoids, brachiopods and gastropods The fossiliferous beds include both Lower and Upper Silurian horizons (Caradoc to Wenlock)

In the Northern Shan States of Burma the Lower Silurian is represented by shales of various colours with thick bands of limestones, containing numerous cystideans, bryozoa, brachiopods and trilobites belonging to the genera Remnopleurides, Calymene, Pliomera, Sphærocoryphe, and the Upper Silurian consists of strata exhibiting two different facies an arenaceous facies (Namhsim Sandstone) containing numerous brachiopods, and some trilobites of the genera Illænus, Encrimirus, Calymene, Cherriurus, Phacops (Dalmantes), and a calcareous facies (Zebingyi Beds), with graptohtes, brachiopods, cephalopods, and trilobites of the genera Phacops and Dalmantes The Namhsim Sandstones are principally of Wenlock age, the Zebingyi Beds, slightly newer

Between the Lower Silurian and the Huronian or Archæan of the Shan States, there intervenes a thick series of quartzites and slaty shales that have been regarded as Cambrian, but containing no fossils

DEVONIAN AND LOWER CARBONIFEROUS SYSTEMS

The strata intervening between the Silurian and the unconformity conglomerate which, almost everywhere in India as also in many other parts of the world, indicates the commencement of the Upper Carboniferous, that is, therefore, the Devonian and Lower Carboniferous, are even more scantily represented in India than the Cambrian and Silurian The scantiness of outcrops of those particular horizons is a characteristic feature of the region included within the limits of the Indian Empire These horizons are entirely absent from the Peninsular region, unless it be shown eventually that the Vindhyans are partly of that age Fossils of undoubted Devonian age have only been found in Chitral and in the Northern Shan States, but in neither case has their stratigraphy been completely

Devonian of Chitral and of Burma worked out The presence of the trilobite Phacops latifions and of the curious coral Calceola sandalina amongst the fossils of the Northern Shan States indicates that the Middle Devonian horizon is represented

In the Spiti region of the Himalaya, the Muth quartzite, an unfossiliferous band some 500 feet thick, and a group of limestones between 300 and 400 feet in thickness with poorly preserved fossils, overlying the Muth quartzite, may possibly represent the whole or a part of the Devonian These beds are succeeded by the only undoubted

Lower Carboniferous of Spiti Lower Carboniferous strata that have yet been observed in the

Indian Empire

In the region adjoining the lower part of the Spiti Valley, the aggregate thickness of the strata extending from the presumed Devonian to the Upper Carboniferous conglomerate amounts to over 4,000 feet particular case, there seems to be a gradual passage upwards into the conglomerate, and it seems that the usual unconformity is locally bridged over, the whole of the Carboniferous System being present in this particular section Where the maximum thickness is exhibited, the Carboniferous beds underlying the conglomerate have been divided into two sections, each of which is about 2,000 feet thick. The lower division named the Lipak Series is mainly calcareous and shaly, and contains numerous fossil brachiopods, amongst which may be mentioned several species of Productus, and the typically Lower Carboniferous Syringothyris cuspidata, numerous mollusca, and trilobites of the genus Phillipsia The upper division known as the Po Series consists of quartzites and shales It contains two sub divisions, a lower one with a few fossil plants that seem identical with certain plants of the Culm of Europe and Australia (Lower Carboniferous), and an upper sub division with marine fossils, amongst which one notices numerous Bryozoa These beds have been named the "Fenes tella shales" from the leading genus of Bryozoa They are closely connected with the overlying conglomerate, and belong probably to the Upper Carboniferous

GEOLOGICAL HISTORY OF INDIA DURING THE UPPER CARBONIFEROUS, PERMIAN, AND MESOZOIC PERIODS

Towards the end of the Middle Carboniferous, there occurred an extensive orogenic up-Orogenic phenomena heaval in many parts of the globe in Carboniferous times Mountains, which denudation has now removed, were upheaved to an altitude compar able with that of the highest ranges of the present day, and there are even indications of the existence of glaciers Except where sedimentation continued uninterrupted in places that remained unaffected by these movements of the earth's crust, we find, therefore, a well marked stratigraphical break at the base of the Upper Carboniferous, which usually rests unconformably on the underlying rocks The junction is usually indicated by an unconformity conglomerate, which often exhibits pe culiar characters that have been regarded as glacial This break is particularly conspicuous in India where the Lower Carboniferous is unknown except in the very local Himalayan exposures just mentioned With this exception the Carboniferous System, almost everywhere in India, commences with a peculiar boulder bed which cannot be older than Middle Carboniferous, and which supports a vast series of Upper Carboniferous and Permian strata

After the great upheaval of the Middle Carboniferous, the crust of the globe remained comparatively quies cent until the middle of the Tertiary era Throughout the intervening periods we cannot, therefore, avail ourselves of any marked stratigraphical unconformities to establish divisions through that long series of ages There are, however, indications of certain universal or widespread alterations in the relative level of the ocean that have left their mark in the stratified record, and that greatly assist in demarcating lines of division Whenever the level of the ocean was comparatively high, its sediments invaded certain areas that had previously been continental This was particularly the case at the time of the Upper Cretaceous (the period of the Whenever the surface of the ocean subsided to an unusually low level, the previously formed sediments were left dry, and sedimentation was interrupted above them until the next return of the ocean Owing to the wide areas over which they can be recognized, it is these interruptions which have principally been made use of as lines of demarcation between the various systems Some of the most conspicuous of these interruptions, for instance, the one between the Permian and Trias that separates the Primary from the Secondary, or the one between the Cretaceous and Eocene that separates the Secondary from the Tertiary, are as distinct in India as in Europe It must be noticed, however, that owing to the quiescence of the earth's crust during these periods, the breaks are unaccompanied by any stratigraphical unconformity The occurrence of ferruginous beds re presenting a peculiar alteration pro-Stratigraphical breaks indicated by lateritic duct of rocks exposed to the air,

bands known as "laterite," often assists in locating these stratigraphical breaks, in the absence of a stratigraphical unconformity. These ferruginous layers represent the altered surface of the sediment which was exposed to atmospheric agencies during the interval between two marine invasions.

basin, all of which are Lower or Middle Carboniferous in age. The Lower Gondwana coal corresponds with the Upper Productive coal measures of North America, and with the coal measures of central France, which re call the Damudas on account of the enormous thickness of some of their seams.

The constitution of the Lower Gondwanas, where most typically developed in Bengal, may be tabulated as follows —

PÁNCHFT

PÁNCHFT

RÁNIGANJ

IRONSTONE SHALES

BARÁKAR

TÁLCHIR

KARHARBÁRI

BOULDER BEDS

APPTOXIMATE age

ZECHSTEIN

VECHSTEIN

ARTINSKIAN

URALIAN

MOSCOVIAN

In the coal fields situated outside of Bengal, some of these divisions have received different names. De tailed monographs of all the coal fields have been published in the Memoirs and Records of the Geological Survey of India *

(b) Marine Facies

The marine representatives of the Ural and Artinsk stages are very widely developed throughout the extra peninsular regions of the Indian Empire, where they are usually known as the Productus beds, from the great abundance of fossil brachiopods belonging to that genus which they contain. It is in the Salt Range that these beds have been most completely studied. In that range they are mostly calcareous and are collectively known as the Productus limestones. They have been classified as Lower, Middle and Upper Productus limestones, each of which is further sub divided. The base of the Lower Productus limestones is a boulder-bed apparently

glacial, identical with the Talchir Boulder bed of the boulder bed and of the same age Salt Range It contains a variety of fossils and most of the overlying beds are highly fossiliferous The successive faunas have been studied in great detail by Waagen, whose descriptions have been published in the Palæontologica Indica The fauna of the Lower Productus limestones and that of the lower divisions of the Middle Productus limestones indicates that these beds belong to the Upper Carboniferous Period remainder of the Productus limestones, owing to the presence of fossil ammonites with complex sutures, such as the genera Cyclolobus and Medlicottia, is correlated with the Lower Permian (Permo Carboni ferous or Artinskian) The uppermost beds of the Upper Productus limestones are immediately succeeded by a conglomerate of Triassic age, the representatives of the Zechstein or Upper Permian being absent from that region, as from all the exposures of marine Permian in India

The same rocks, either calcareous or shaly, are extensively developed all along the central ranges of the Himalaya (The outer ranges are largely occupied by rocks corresponding with the ancient unfossiliferous

series of the peninsula) The most constant member of the group is the one known as the Productus shales which corresponds with the Upper Productus limestones of the Salt Range, and is of Lower Permian age

In Garhwal, the Productus shales overhe uncon formably beds of Lower Palæozoic age In Spiti, they pass inferiorly into a calcareous sandstone of Upper Carboniferous age, the base of which is conglomeratic

Permian and Upper Carboniferous of Spiti aronglomerate usually rests unconformably on various horizons ranging from Silurian to Lower Carboniferous, except where the Po Series, men tioned in a previous paragraph, attains its maximum development there the conglomerate passes conformably downwards into the uppermost member of the Po Series, the Fenestella shales, themselves of Upper Carboniferous age

It is important to notice, therefore, that the Spiti conglomerate is not the equivalent of the Talchir conglomerate or the boulder-bed of the Salt-Range, but belongs to a higher horizon corresponding probably with some zone of the Barther.

with some zone of the Barakar

The Fenestella shales themselves appear to corres pond with some of the Barakar and Karharbari horizons, and are represented in Kashmir by the Zewan

Zewan beds of Kashmir shales (Lower Permian), and overlie shales and sandstones containing fossil fishes and impressions of Gangamopteris, which belong to one of the zones of the Talchir and rest on volcanic rocks, probably of Lower Carboniferous age

Beds corresponding with the Productus limestones of the Salt-Range are known in the Eastern Himalaya In Burma and in Tenasserim, they are largely represented by limestones crowded with foraminifera of the

genera Fusulma and Schwagerma
The Fusulma limestones have also
been observed in Baluchistán in
the Pishín and Zhob districts The respective limits
of Upper Carboniferous and Lower Permian in all these
exposures has not yet been ascertained. One of the
curious "evotic blocks" of Johar on, the Tibetan frontier, scattered through a gigantic volcanic breccia of
Cretaceous age, that forming the peak known as
Chitichun I, is a huge mass of

Chitichun I limestone containing fossils of the same age as the Kálabágh zone of the Salt-Range at the base of the Lower Permian

The uppermost beds of the Lower Permian of Garhwal contain the remarkable genus of ammonites discovered in 1879 by Mr Griesbach, and described by

Otoceras beds him as Otoceras. The layer containing this fossil is immediately succeeded by Lower Triassic beds without any indication of unconformity, and was, therefore, taken to represent a passage zone between the Permian and Trias. But there is a complete change of fauna between this layer and the succeeding beds, indicating a break quite as pronounced as in the Salt Range. The Otoceras layer is ferruginous which indicates that it probably remained exposed to the atmosphere, and that there was an interruption of sedimentation after the period during which it was formed. The newest age that can be assigned to it is the top of the Lower Permian.

^{*} Most of these monographs are out of print They can be con sulted, however, in most public libraries

The Upper Jurassic of Kachh is succeeded by an equal thickness of Lower Cretaceous sandstones, often glauconitic, extending up to the horizon of the Lower Greensand, and constituting the Umia beds, already mentioned with reference to the Gondwana facies

In Baluchistan, the Lower Cretaceous is represented by the black "belemnite shales," containing belemnites of the genus *Duvalia*, and by the overlying brilliantly striped white and red limestones known as the "Parh limestones". The Himalayan equivalent of these rocks is the Giumal sandstones. The equivalents of the Parh limestones have been observed in the Arakan Yoma and the Andaman Islands

THE UPPER CRETACEOUS SYSTEM

THE middle stages of the Cretaceous, especially those just preceding the Gault, are not known in India, this horizon coinciding with one of the most

pronounced breaks in the Indian Geological sequence It is near the East Coast of Southern India, from Pondicherri to Trichinopoli, that the Upper Cretaceous of most complete sequence of Upper Southern India Cretaceous beds is observed beds are principally shales and sandstones with some calcareous bands full of well preserved fossils that have been described in great detail by Forbes, Stoliczka and Kossmat There are three principal divisions, the Utatúr, Trichinopoli and Ariyalûr The Utatur, mostly shales with some coral limestones, con tains over 100 species of ammonites distributed in three zones the Schloenbachia beds with Schloenbachia inflata, Turrilites Bergeri, Hamites armatus, the Acanthoceras beds with numerous species of Acanthoceras and with Turrilites costatus, and an upper zone with Acanthoceras conciliatum, and Nautilus These three divisions correspond respectively with the Gault, Cenomanian, and Turonian

The Trichinopoli beds of Lower Senonian age (with 27 species of ammonites), consisting of sands, clays and shingle beds intercalated with shell limestones, largely used for ornamental purposes, include a lower division characterized by Pachydiscus peram plus, Protocardium Hillanum, etc, and an upper division with Placenticeras Tamulicum, Heterocera indicum, etc

The Ariyalur, mostly Upper Senoman, is chiefly arenaceous, and contains at its base a highly fossiliferous band with more than 50 species of ammonites belonging to the genera Pachydiscus, Baculites, Sphenodiscus, Desmoceras, etc, and numerous lamelibranchiata and gastropods amongst which the Cypreidand Volutide are particularly well represented. The uppermost strata of the Ariyalur are known as the Nimyur beds, and contain the characteristic Danian species Nautilus Danicus

Cenomanian beds containing Acanthoceras are known in Hazara and in the Samana range. The Upper Cretaceous is largely developed in Baluchistan and in the Laki range of Sind. Its lower members are limestones constituting the Hemipheustes beds, of Cam-

panian or Lower Maestrichtian age. They are followed by a great thickness of sandstones often interbedded with volcanic material, known as the Pab sandstones. Highly fossiliferous bands are sometimes associated with the Pab sandstones, especially in their upper zones, the commonest fossil being Cardita Beaumonti. It is possible that some of the uppermost Cardita Beaumonti beds are of Daman age.

The great volcanic group of the Deccan trap in the peninsula is underlaid by a formation of slight thickness, but of considerable horizontal extent constituting the Lameta series where it exhibits the fluviatile facies, and the Bagh beds, where it is marine The Bagh and Lameta correspond with the Utatur of Southern India

The eruptions of the Deccan trap continued up to the end of the Cretaceous, the uppermost layer of the Carduta Beaumonti beds in Sind being still overlaid by a basalt flow These eruptions have covered an enor mous portion of the peninsula with basaltic flows, the western portion in particular, north of latitude r6°, being entirely occupied by this formation. In the Zhob Valley of Balúchistin, the series is represented by huge intrusions of gabbro associated with serpentines locally rich in chrome Similar rock are extensively develop-

ed in the Arakan Yoma and the Andaman Islands
The Deccan trap eruptions appear to have coincided with the final breaking up of Gondwana-Land

THE EOCENE SYSTEM

With the end of the Cretaceous, the Mesozoic or secondary era came to a close

The Locene in India, as in other countries, includes the bulk of the nummulatic limestones. It includes three principal divisions the Ranikot, the Laki, and the Khirthar. The uppermost beds of the Upper Ranikot contain the earliest abundant nummulates belonging principally to the species N planulatus.

The Laki division exhibits either a shaly arenaceous or a calcareous facies according to various localities. Its characteristic numulities are N atacicus, and N (Assilina) granulosa. The Laki limestones abound also in foraminifera of the genus Alveolina. The Laki division is economically of great importance containing as it does an important coal bearing horizon in Baltichistán and the Punjab

The Khirthar consists largely of himestones which, in the range of that name along the Sind-Baluchistan frontier, are as much as 3,000 feet thick. It contains the zones richest in nummulities, amongst which may be men tioned N længatus, N perforatus, N gizehensis, Issilina spira

Both the Laki and Khirthar are well developed in Kachli, and in the Salt Range in the Arakan Yoma and in the Andaman Islands — The Laki is largely developed in Western Rajputana — The nummulities of Surat and of Assam and the Subathu group of the Simla region correspond with the Khirthar

THE PEGU OR MEKRAN (FLYSCH) SYSTLM

(Oligocene and Lower Miocene)

THE end of the Locene coincides with the opening of the last and most important chapter of the geological The quiescent conditions that had history of India lasted ever since the Upper Carboniferous now came to an end, and the earth's crust entered into a renewed phase of disturbance. The enormous mass of sediments that had so quietly accumulated upon the gridually sink ing floor of the Tethys was now powerfully compressed in a horizontal (tangential) direction, and was thrown into a succession of ridges, which became the great moun tain ranges of the present day the Alps, the Pyrenecs, the Himalaya

Three phases can be distinguished in this grand up heaval, one at the end of the Locene, Upheavil of the one in the Middle Miocene, and Himilaya the last in the Middle or Upper Phocene The first upheaval, although it extensively folded the Eocene and underlying older strati, uplifting them in many regions into ranges of considerable altitude, was not nevertheless sufficient to obliterate the Tethys This ocean still preserved its continuity, the gradual subsidence of its floor, of which we have evidence from Upper Carboniferous to Locenc, still continued, or even became accentuated, judging by the enormous thickness of sandstones and gritty shales all bearing evidence of deposition in rather shallow water that accumulated throughout the Oligocene These dark grey or greenish shales and often calcareous sandstones are singularly uniform and monotonous in appearance, constituting the bulk of the great formation known

as the "flysch" Beds of similar The flysch appearance had already been depos ited in the same area during Eocene and even Cretaceous times, but it is during the Oligocene that most of the flysch was deposited

Towards the end of the Middle Miocene, a second orogenic phase still more powerful than the Upper Eocene one upheaved the flysch strata, folding them into innumerable corrugations, and the Tethys was cut up into a series of disconnected lagoons or inland seas which finally disappeared in the last great upherval of Phocene times

A homogeneous series of strata was thus formed, resting unconformably upon the Eocene, and uncon formably overlaid by the Upper Miocene and Pliocene It constitutes the Pegu system of Burma, and the Mekran system of Baluchistán

The flysch facies of this system in Baluchistin is known as the Kojak shales, an Kojak shales almost unfossiliferous formation, occasionally containing, however, fossiliferous bands with Nummulates intermedius, N vascus, and other fossils of Oligocene age

In the neighbourhood of what was once the shore of the ocean in which the flysch was Culcareous zones of deposited, the sediments acquire a calcareous facies and become highly Sind and Baluchistán In Sind and in Baluchistán the fossiliferous fossiliferous facies is divided into three principal divisions, the Nari, Gai, and Hinglaj The Nari includes the Middle and part of the Upper Oligocene Its lower division frequently

consists of massive nummulatic limestones resting with varying amounts of unconformity on Nurs erfe the nummulatic limestones of Locene age. It is the list horizon rich in large nummulites principally V intermedius and V caseus, accompanied by lepidocyclines of the group of L Gy + m dilatata. The Gap, consisting of shales and coral limestones, is of appermost Oligocene age The Hingly Series, well developed along the Mel ran Coast, in the Persian Gulf Islands in Hingly ene the Irawaldi Villes and Andaman Islands, consists principally of clays and sandstones, and conglomerates with a few calcareous bands. The Hingly Scries is munity of Burdigali in age (Lower Miorane), the uppermost bedsbeing perhaps Helvetran (Middle Miocene) Corresponding in age with a portion of the Pegu System

are the great intrusions of granite, of diorite of augite scenite, and of porphyrics, that cut through the Focene rocks of Baluchist in forming some of the highest hill ranges, such as the Ris Koh, the Khwaja Amran. Of the same age are the Pertiary granites of the Hamalaya Other products of this igneous activity are the

petroleum of Burma, Assum and Petroleum alt the Punjab and in all probability and sulphur the salt mark and salt deposits of the Salt Range is well as many deposits of sulphur. The petroleum, owing to its inferior density as compared with water, has collected along the axes of antichnes in the Pegu System, wherever a layer of argillaceous rock has provided an impermeable roof. Gases have also collected along these anticlinal crests, and are apt to find their way to the surface through fissures, producing the mud volcanoes that often rise along the outcrops of these anticlinal arches. There are four principal groups of

mud volcanous, situated respectively Mud volennors along the Eastern and Western bor ders of the Arakan Yoma, in the Gomal Valley along the Afglian Baluch Frontier, and along the Mekran Coast

In the Punjab the equivalents of the Pegu System are known as the Murree beds, in the Himalaya as the Kasauli and Dagshai beds

The coal seams of Assam and Burma occur in the

Pegu System and are of Oligocene age

In the Mari hills of Baluchist in, some beds, containing Mastodon angustidens and other Middle Miocene for sils, probably belong to the upper part of this system

THE SIWALIK SYSTEM

THERE are no typical marine deposits in India newer than the uppermost beds of the Pegu System The main upherval of the Himalaya and of the mountains of Balu chistin and Burma took place during the Middle Miocene, riter which nothing remained of the ocean that formerly occupied their site but a number of basins isolated from one another in which the strata known as Siwahks, prin cipally clays, sandstones and conglomerate were deposit Like all inland seas, these basins were subjected to variations in their degree of siltness that were prejudicial to the development of aquatic organisms Hence the remains of animals of this class are scanty Some of the conglomerate beds, especially in the Upper Siwaliks, are of fluviatile origin, and may be regarded as alluvial fans

In Phocene times, these beds were upheaved during the final phase of mountain growth of the Himalaya, after which the only earth movement that has taken place is a comparatively gentle warping that has affected certain regions of Peninsular and extra Peninsulai India and of the Indo Gangetic plain in Post Phocene times

The chief interest of the Siwalik formation resides in the remains of extinct animals that have been made known to the scientific world through the researches of Cautley, Falconer, and Lydekkei. The bones and teeth of these animals are found principally in the conglomeratic

swalk fauna layers at the base and at the top of the series. Those found at the base are of Upper Miocene (Pontian) age, and contain a fauna contemporaneous with that of Pikermi in Greece Amongst the numerous extinct genera of this fauna may be mentioned Dinotherium, Mastodon, Hipparion, Helladotherium, Hyænarctos. The upper conglomerates are of Phocene age and contain the living genera Elephas, Equus, Ursus and many others, all of them represented, however, by extinct species

THE QUATERNARY ERA

It is not certain whether at the end of the Phocene upheaval an arm of the sea still separated the Himalaya from the Indian Peninsula, but if this were so, it soon became filled by the products of the disintegration of the Himalaya, and in this manner originated the great and in the product of the Court of the season.

Formation of the Ganges alluvium alluvial plain of the Ganges, which now links the Peninsula together with the Asiatic continent. The great depth of the Ganges alluvium, as revealed by borings, indicates that in its case also subsidence must

have proceeded simultaneously with deposition

Except in the neighbourhood of the delta, the greater portion of the alluvial plain is above the level of the highest floods of the Ganges and its tributaries, indicat ing-that this area has been upheaved, or that the delta region has been depressed within relatively recent times The presence of a mass of ancient alluvium, known as the Madhupur-jungle north of Dacca in the midst of the delta region, further indicates that a certain amount of dis turbance must have occurred The existence of ancient alluvial areas enclosed within rock basins along the course of some of the Peninsular rivers, such as the Narbada, Taptı and Godavárı, points to the same conclusion, and it is evident that a certain amount of irregular warp ing has affected India in Pleistocene times In conse quence of these physical changes, the ancient alluvium and the one still in process of formation can be readily

Older and Newer alluvium distinguished from one another They are known in the vernacular as "bhangar" and "khádar" In geo logical age, they correspond with the two main divisions of the Quaternary eta, the Pleistocene and Recent The Pleistocene age of the bhangar or older alluvium is clearly shown by the remains of numerous extinct animals amongst-which may be mentioned *Elephas antiquus*, a characteristic species of the Pleistocene of Europe, and various extinct species of horse, ox, rhinoceros, hippo

Prehistoric man potamus Contemporaneous with these are the earliest remains of prehistoric man in the shape of stone implements

belonging to the "Chellean" or amygdaloid type, the earliest type of the earlier stone age

Implements of the amygdaloid type have been found

Laterite embedded in "laterite," a ferruginous material, which is formed as a superficial alteration of locks in waim regions subjected to "monsoon" conditions, that is, to alternately wet and dry seasons. The effect of lateritic weathering is to remove the silica of rocks, leaving a concretionary mass consisting of hydrates of iron, aluminium or manganese.

When the laterite is very free from silica and contains locally a large excess of the hydrates either of iron, aluminium or manganese, it constitutes valuable

ores of these metals

The laterite is largely of Pleistocene age, but some of it may still be forming at the present day, while there are important masses of the same material that were formed in Eocene or even earlier times

Some of the "raised beaches" observed all round the coasts of India at altitudes of as much as 100 feet are probably Pleistocene.

The consolidated wind blown calcareous sand largely made up of foraminiferal tests, which occurs along the coasts of the Arabian sea and is largely

Porbandar stone used as a building material under the name of Porbandai stone, is also probably Pleistocene

There are two regions of Pleistocene and Recent volcanic activity situated along lines of dislocation in the curved systems of ranges on either side of the great Himalayan "arc" The eastern one situated in the "Malay arc" follows

the inner or eastern side of the Arakan Yoma, and its continuation the Andaman Islands, the best known volcanoes being Pupa, Narcondam Island, and Barren Island

Along the western or "Iranian arc," the largest volcano within the Indian Empire is the extinct Koh i Sultan in the Nushki Desert

Oscillations of the relative sea level during the Recent Period are indicated by such features as low level raised beaches, the oyster bed lately discovered in Calcutta, the submerged forests of Bombay and the East Coast

THE GEOLOGICAL SURVEY OF INDIA

The Geological Survey of India was organized along its presents lines in 1850, under the superintendence of the late Dr Thomas Oldham, LLD, FRS, and was des g ned in the first instance for a survey of the coalfields of the country. The work has, however, been extended over other areas, with a view to the preparation of a geo logical map, and the investigation of other minerals of economic value.

Coincident with the issue of the geological maps descriptive *Memoirs* and shorter papers in the *Records* have been published, dealing with the scientific and economic aspects of the work of the Department The published memoirs now exceed 90 volumes, and the main results have been summarized in Manuals, separately treating the scientific and the economic results of the survey

Since the retirement of the late Dr T Oldham, the Department has been under the direction successively of—

H B Medlicott, MA, FORS, W King, BA, DSC, C L Giiesbach, CIE, and T H Holland, ARCS, FRS

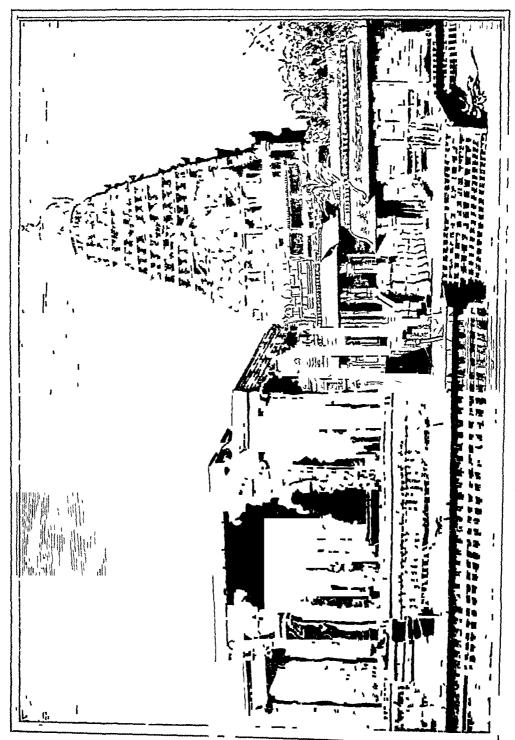
Table of Geological Formations in the Indian Empire

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THE VIMANA OF THE TENTER AT TANJORE

Indian Art and Architecture

(Continued)

DRAVIDIAN ART

The Dravidians have inhabited the southern portion of the reminsula from time immemorial. No record or even tradit on exists regarding the birthplace of the race which in language and character differs from that of their neighbours, from whom they have during the course of their history kept apart and separate. The theory that they are of Turanian origin is chiefly based upon the numerous. Assyranisms that exist in their institutions and mythology, but when the close commercial connection between the Pers in Gulf, and

the Malabar Coast from times is the cirliest taken into account, it must be admitted that conclusions, supported by such evidence alone are not entirely convinc ing They presented i solid barrier to the conquest of the whole pen insula by the Arvans although showing little of exprassion DOW CT themselves, but between the 4th and the 7th centuries, one branch of the Dravidian race over flowed its northern and conboundaries quering the Chaluky in kingdom, penetrated is far north is the Nor budda river They were subsequently driven back, but not before they had left behind them, as a magnificent record of their artistic genius, the Kylas Mono lithic Temple at Ellora in illustration of which ippears in Volume I

This outburst appears to have exhausted the fighting expandities of the race, for they thenceforth sunk into the partial or total, dependence which has been their lot to the present day None of the other races of India, however, succeeded in

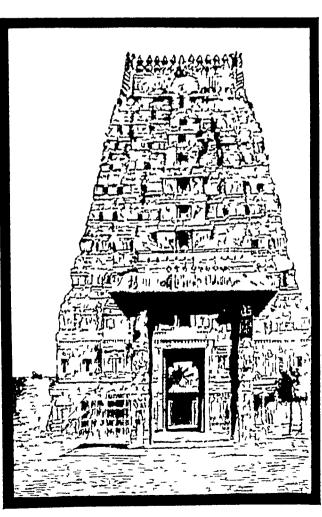
absorbing them nor did they even obtain an appreciable or permanent settlement in the country. The Dravidiums always remained wealthy and powerful, and from about the veir VD 1,000, buildings were erected which proved them capable of embarking in the most splendid architectural undertakings. These are exemplified in the Stone Temples creeked at Madura Tanjore. Chillumbrum, Tinnevelly, and other places in the Madras Presidency.

Nearly all the existing buildings, however, are of comparatively modern date, the great building age in Southern India having been the 16th and 17th centuries

Some structural build mgs, it is true, can be traced back to the 10th or 13th century with certainty, but beyond that, the dates are purely conjectural

It is generally accepted, however, that the kylas at Lllora and the temples it Purud kal are interior to the 12th century and that probably the 12ths it Wahayellipur belong to the 5th of 6th century

These latter, however, being cut from single blocks of granite, show no signs of wear or decay, and therefore ufford no outward evidence of their age They are five in number, and stand on the seashore, each being caived from a single block of grante Externally they are all more or less finished, but in only one has an attempt been made to hollow out the interior It is com pletely cracked through, und is unfinished, the work having been probably abandoned when it was found that the support left for the solid granite roof was insuffi cient Comparison be tween them and the later



COLURA, OR GATEWAY, TO THE TEMPER AT CONJUST M

constructed temples, leave no doubt but that they gave the type to all the Dravidian religious edifices, although the grouping of the various buildings had not then been developed In the Kylas at Ellora this step has been made, and the whole arrangement is as com

plete as at any future period

Apart from its historical interest, the Kylas is one of the most singular and interesting monuments of the architectural arts in India Unlike the Buddhist excavations, it is not a mere interior chamber cut into the rock of a hillside, but is as complete a temple as could be erected on the plain Its sole drawback, from the point of view of its effect, being that in cutting the lock around it to provide an exterior, the whole has necessarily been placed in a pit A trench was cut into the sloping side of a hill, in the form of an oblong, to the depth of about 100 feet at its innermost side, leaving the outermost wall of rock intact From the central mass, the earth was removed and a complete temple has been fashioned, the exterior and interior being most elaborately carved The outermost wall has been pierced and wrought into the form of a gate way, through which entrance is obtained into the temple and the court which surrounds it Cut out of the surrounding cliff is a peristylar cloister with cells and halls in two, and sometimes three storeys Outwardly the "Vimana" resembles the "raths" at Mahavellipur, but is more refined in form, while the interior has been hollowed out, and is supported by massive piers. What strikes the beholder with as tonishment is, that the whole is carried out in accordance with a perfectly thought out design. On either side of the porch are two square pillars called "deepdans" or lamp posts, and two elephants about life size, all cut out of the native rock

Despite the calculations of Fergusson, that the actual labour involved in excavating such a monument, is less than that required to build one of similar dimen sions, the impression produced by the Kylas is that of admiration for the mind, or minds, that could conceive such a work, and respect for the industry and tenacity of purpose that brought it to so perfect a

completion

We will now proceed to the temples of a later date, chiefly constructed of stone and brick, found only

in the Southern portion of the peninsula

They resemble in some respects, and yet differ in others, from those of the Hindus of Central and Northern India They form more imposing groups, for beside the Temple proper, or "Vimana," they comprise a "Mantapa" or porch, and sometimes a considerable number of "Gopuras" or gateways, as well as a "Choultrie" or pillared hall

The Vimanas are invariably square in plan, and rise in storeys gradually decreasing in size until the dome-shaped apen is reached. The Temple at Tanjore has as many as fourteen of these storeys, and rises to a height of nearly 200 feet. It is almost the only one in which the "Vimana" is the prinicipal object, round which the subordinate ones are grouped in such a manner as to make a consistent whole. In most instances the buildings have been aggregated together, as if by accident, and the temple which is the principal object is so utterly overpowered by the secondary ones.

to destroy all appearance of design The "Vimana" stands in a court surrounded by a high wall, externally quite plain, but ornamented internally by colonnades, and cloisters or buildings devoted to the service of the Entrance to this court is obtained through one or more gateways or "Gopuras," that at Sering ham having as many as seventeen The form of the "Gopuras" differs from that of the "Vimanas" only in being oblong instead of square in plan This necessitates the abandonment of the circular crowning ornament, its place being taken by one cylindrical in Some of the Gopuras are imposing structures, that at Kumbaconum, for instance, rising to twelve Both "Vimanas" and "Gopuras" are elab orately ornamented with carving, consisting of hori zontal bands of niches, covering the walls of each storey These horizontal bands are cut, in the centre of each of the four walls, by a vertical line of larger cells supported by projections to right and left, which, decreasing in size as they ascend, are crowned by a winged ornament Seen in the blaze of an Indian day, these buildings are not lacking in richness of effect, though the eye wearred by the innumerable shadows, cast from the multitude of carved details, looks in vain for the relief a plain undecorated surface would afford

The most extraordinary structures connected with these Temples are the pillared halls, or "Choultries," which occupy positions within the enclosures or courts. Their uses are various, but the Nuptial Halls, in which the mystic union of the male and female divinities is celebrated once a year, are the most

elaborate and extensive

They sometimes consist of nearly 1,000 columns composed of close grained granite, covered with sculp ture from base to capital, with scarcely two pillars exactly alike. They lack, however, the sense of design and arrangement of the Jama porches, the pillars being placed too close together, and at absolutely regular in What impression of grandeur can be obtained from a forest of granite pillars, each formed from a single stone, and all more or less carved, they possess, but their want of design detracts painfully from the effect they might have produced A certain number of pillars in the centre are sometimes omitted, but this is the only attempt on the part of their builders to break the monotonous lines of columns Allied to these halls are the corridors which sometimes occupy a large portion of the ground within the walled enclosure That at Ramisseram is nearly 4,000 feet in length, the breadth varying from 20 feet to 30 feet, and the height being 30 feet Their pillars are about 10 feet apart, and are most elaborately carved

The most artistic features of the Dravidian style are the compound pillars, employed to support the stone roofs of the temple porches. They consist of a main shaft upon which the great beams supporting the flat roofs rest. In order to lessen the width of the roof span, brackets are employed, and these are supported by pillars of lighter construction, attached at their bases to the main shaft. The effect is extremely graceful and original, giving an appearance of lightness

and strength to the whole column

Before proceeding to consider the Dravidian sculp ture, a point of great archæological, and in a lesser



CARVED FIGURE AT MADURA

degree of artistic, interest may be mentioned, namely, the undoubted similarity between these temples and those of the Egyptians The gateways or "Gopuras," both in form and purpose, resemble the pylons of the Egyptian Temples as do the great "Mantapas" or halls of 1,000 columns, with even greater accuracy, reproduce their hypostyle halls

Whether this is accidental, or whether both Egyptian and Dravidian Architecture sprung from a common origin, are questions which cannot at present

be answered with any

certainty Artistically, the Diavidian style, as exemplified in their constructed buildings, possesses more of the barbaric element than any other in India Its forms are more crude, and the plan ning is less skilful, than in either the Jama oi Indo-Aryan style The masses are ponderous, and the decorations lack restraint, and with the exception of the composite pil lars before mentioned, it has added but little to the sum of beautiful ideas in the archi tecture of the world

CIVIL ARCHITEC TURE

No civil buildings the before dating advent of the Mahomedans exist Southern India, and what is remarkable in a country of several Lingdoms, frequently with one ٦t war another, no fortresses are to be found No cenotaphs to mark the bur al places of the ashes of their departed kings adom the vicinity of the ancient captals of the

Dravidan States, such as are found in Northern Ind a When, however, the Dravidans came into contact with the Mussalmans, palaces, kutcherries, and elephant stables, rivalling the splendour of their cell gous buildings and the palaces of their conquerors were erected at Vijavangar, Madura, and Tanjore They bear not the slightest resemblance to the architecture of their temples, but are based entirely upon the Moghul style. That civil buildings must have existed before this period is probable, and their entire

disappearance is to be attributed to the same cause which accounts for the destruction of most of the early edifices throughout India, namely, that they were built of wood

The hall of the palace of Madua is an example of unadorned simplicity, rivalling in this respect any of the Mussalman buildings found in India, while in other instances, such as that of the arcading of the court of the palace at Tanjore, are seen the exuberant details of the Dravidian carvers, superimposed upon the

structural form of the Mahomedans Before any composite style could be developed from the conjunction of these two opposing ideas the advent of the European and decay of the Mussalman power destroyed it, and led to the in troduction of Western styles alien to both Since then in civil architecture, no pure style, either Western, or Eastern, has been developed, but build ings more or less com monplace and vulgar, contain ng mixtures of East and West, have been crected



SCUPTURED COLUMNS IN THE TEMPLE AT MADIEN

DRAVIDIAN SCULPTURE Mention has afre

Mention has already been made of the ex traordinary diversity of outline and detail in the carvings of the p Hars of the \uptial Halls of the Temples These are far too nu merous to particularize and it is only possible to describe broadly their characteristics Pat ent laand nlmost bour incredible industry expended upon their production, they share with all Indian work.

but they are chiefly remarkable for their wild imagination. When portraying the composite monsters made up of two or more animals, they make the works of the European sculptors of the grotesque in the Middle ages appear same almost to dullness by comparison. Of pure beauty there is but little, though on the other hand, there is none of the deadening repetition of the Northern Indian sculpture. Fancy here runs riot, usurping the place of order, symmetry or fitness. This wealth of imagination gives great spirit



of the Sabarmati, they never wholly subdued the rebellious spirit of their subjects, nor converted the bulk

of them to then Faith On the con trary, from an artistic point of view the Guzer this conquered their conquerors, and forced them to adopt their forms and ornaments, which were superior to any known to the invaders The mosques ire Jama in almost every detail. Arches, it is true, were inserted, but merely as symbols of the Faith, and not on account of their constructive necessity domes and minars are refined in form and decorated out of all resemblance to those of Northern India, while the constructional methods are dentical with those used in the building of the Jain's Temples The two cele brated pierced stone windows have already been mentioned, the design of which is purely Ind an, while the smaller mosques, especially that of the Ram Sipri, are scircely recognizable as Moslem buildings. Again, it is

only necessary to compare the minars in Ahme dabad, with their ulaborately curved bases and bracketted galleries with those at Delhi and Agra, to see at once how great was the 101fluence of the ไวเทว builders upon the tradi tional forms of their rulers The tombs show the sime influ ence, those of Meer Ibu Imab SyadOsman and Shah Illum being constructed upon the principles of Juni

nchitecture

AHWEDABAD DELHI BIJAPUR

FOUR TYPES OF THE MINARS OF MOSQUES IN INDIA

An offshoot of the Pathans, the Ghori Dynasty, set up an independent kingdom M indu in about the year AD 1401, and made its capital at Mandu, situated on an extensive plateau, forming a spur of the Vindhyas Here for the space of one hundred and sixty eight years, buildings of a most extensive and elaborate character were erected The walls surrounding the plateau are more than 30 miles in length, while mosques, tombs and palaces of the greatest magnificence covered the space within them It has long since been t deserted city, its monuments rent by the luxuriant growth of climbing plants, or hidden in the recesses of an almost impenetrable jungle At the instance of Lord Cuizon, efforts are now being made to preserve the great mosque, and its two most splendid palaces, the Jehaj Mahal and the Baz Bahadur, from complete destruction These buildings are monu

mental rather than elegant in style, and are more fascinating to the artist in their picturesque decay, than interesting as examples of architectural development to the archæologist f* It has been before noticed that the pre-

before noticed that the presence of suitable building stone had marked influence upon the traditional Mahomedan style in Northern India The absence of this material gives a local individuality to the build-

hty to the buildings both in Bengal and Sind, where brick alone wis available. Each of these provinces introduced a new feature into the style, besides developing variations in the shape of the pointed arch, as a result of their brick construction.

In Bengal, the new feature took the form of the curved roofs to the "Chattries" which crowned the angles of the buildings, already noticed in the section dealing with Indo Aiyan

Civil Architecture In Sind the variation adopted was in the style of decorating the surfaces of the mosques In place of carving, tiles of great beauty, both as regards design and colour, were extensively used

This method of decoration was undoubtedly derived from that of the Mahomedans in Peisia, but it never took as firm a hold upon architects in India as it did upon the builders in the more Western portions of the Mahomedan Empire Its possibilities were here

The system is carried to its greatest extent at a place situated five miles from the city, where the remains of a magnificant collection of buildings can be seen. These include an almost perfect message three tembers and

include in almost perfect mosque, three tombs and isplended prace, surrounding in extensive tank, access to which is gained by a noble range of steps. This group which in its day could scarcely have been surpassed by any in India, is one which, even in its present state of desertion and decay, impresses the spectator by its combination of simplicity and elegance

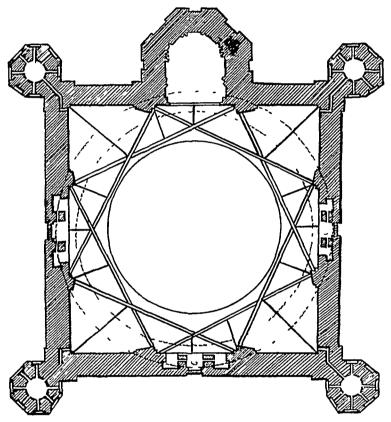
I low and the find of their career, when Guzerat came more completely under the dominion of the Moslems the architects of Ahmedabad reverted to the archited forms generally used by their biethren in Northern India and clockhere. I tomb erected by Mahmud Begurra at Mahmudabad is a striking and beautiful example of this more solid and simple style, rarely it ever surpassed by any tomb in India.

overshadowed and thrust aside by the appreciation bestowed upon the more costly and permanent practice

of inlaying marble with precious stones

Painters who have seen the magnificent effect pio duced by the few existing buildings decorated with tile work remaining in Sind and at Lahore, must regret this neglect, but at the same time must recognize the sound artistic instinct which rejected the employment of tile work in comb nation with marble

If few in number and widely separated, the Maho medan buildings at Gaur in Bengal, and at Tatta in Sind, will be seen to hold not unimportant places in the interesting record of the various phases of Moslem Art In India they influenced it at opposite poles in



PLAN OF THE GOL GOMUZ AT BIJAPUP

Bengal, by introducing a form based upon the bamboo huts of the indigenous cultivators of the soil, and in Sind, by bringing it into touch with the artistic genius of the Mahomedans of Persia and Mesopotamia

Of the monuments of the Mahomedan dynasties, which held successive sway over the Deccan from 1370 to 1672, the most remarkable are those at Bijapur These are due to the building enterprise of the laterkings of the Adil Shahi Dynasty, the great epoch being the hundred vers between 1557 and 1657. During this

Bijapur period, their capital was adorned with a series of buildings as remarkable as those of any of the Mahomedan capitals of India. They showed wonderful originality in both

design and construction, and a largeness of conception in some of their buildings, and an elegance in proportion, and an elaboration in detail in others, unsurpassed by those of Agra, Delhi, Jaunpore, or Ahmedabad, though differing from them in a marked degree

The Jumma Musjid was commenced by Ali Adil Shah in 1557, and though continued by his successors, and never finished, it is one of the finest in India.

Jimma Musjid Although of splendid proportions throughout, and free from any Hindu influence, it is to the artistic shape and the constructional skill displayed in the building of the central dome of 'its Western colonnading that it owes its reputation. This would be even greater were it not

surpassed in power and elegance by the two glories of Bijapur, the Gol Gomuz or Tomb of Mahmud, and the Ibrahim Rozah

The Gol Gomuz, or Tomb of Mahmud is one of the most remarkable buildings for simple grandeur and constructive boldness, not only in India but in the

world As will be The Gol Gomuz seen from the plan it is internally a square apartment 135 feet each way, and is larger in area than the Pantheon at Rome At the height of 57 feet from the floor, the hall begins to contract by a series of ingenious and beautiful pendentives, to a circular opening of 98 feet in diameter the platform of these pendentives the dome is erected, 124 feet in diameter, thus leaving a gallery more than 12 feet wide all round the interior Internally, the dome is 175 feet high, externally The most ingenious and novel part of the construction of this edifice is the mode in which the lateral or outward thrust of the dome is counteracted by the weight of the pendentives acting inwards, which form a sort of tie and keep the whole in equilibrium without in any way interfering with the outline of the dome. In the Pantheon a great mass of masonry is thrown on the haun ches, which entirely hides the external form, whereas in the Gol Gomuz the weight is hanging inside, and conse quently allows the outer form to be clearly seen. In the interior, only the

simplest mouldings adorn the intersecting arches of the pendentives and the ballustrading of the gallery is equally quiet in design. Nothing, therefore, tends to detract from the solemn impression of the wide and lofty vault, which spreads itself above the spectator.

The exterior is equally impressive. At each angle stands an octagonal tower, eight storichigh, simple and bold in its proportions and crowned by a dome of great elegance. The walls are plain and solid, pierced only by such opening as are requisite to admit light and air. At a height of \$3 feet, a massive cornice projects to the extent of 12 feet from the wall above which an open gallery gives lightness, and finish to the whole

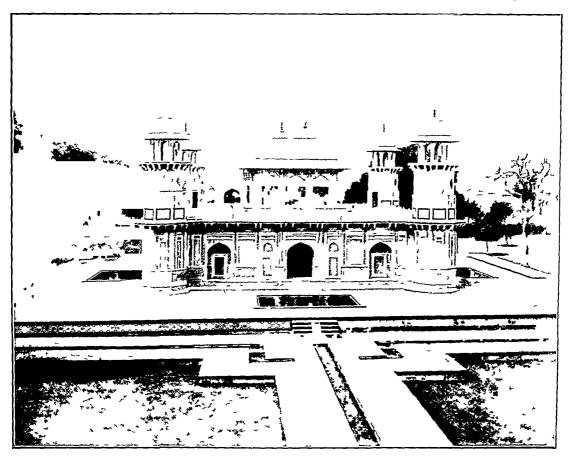


Amutsar was built, while his palace has been altered out of all recognition, in order to meet the wants of successive occupants. At the other end of his dominions, namely, Bengal, Jehangii founded the City of Dacca, in supersession of the ancient capital of

Gaui, and adoined it with buildings of considerable dimens ons. Here igain he was unfortunate, for in consequence of the nature of the materials used in their construction, nearly all these important edifices are now in a state of picturesque ruin

A tomb at Agia, the Itimad ud daula, belongs to his reign, although not built by Jehangir It has much

Victoria and Albert Museum, South Kensington, certainly once adorned the throne of the Emperor It is equally certain that shortly before the date of this tomb, the Itimad-ud daula, the system of inlaying, called "pietro duro" had been invented in Italy, and had become extremely popular throughout Europe Placed in a setting of polished white marble, it certainly is a most appropriate, and beautiful method of decoration. The difficulties and nature of the process compel the adoption of a flat and decorative treatment of surfaces, and are such as to discourage the representation of human or animal forms. It is, on the other hand, a singularly appropriate method of treating arabesques and delicat.



MAISOFFLM OF ITIMAD UD DALLA ACEA

intrinsic beauty, but its chief interest lies in the fact that it is one of the earliest, if not the very earliest, build ings in India, in which the decorations include coloured stones inlaid into white marble. Although no very direct evidence has been adduced to prove that this mode of decoration was introduced by Italian craftsmen engaged in the service of the Moghul Emperors, there can be little doubt that much of the mural ornamentation in the buildings of Shah Jehan was affected by European influence. It is known that Augustin de Bordeaux was employed by Shah Jehan, and the Mosaic executed by him of Orpheus, after Raphael's picture now in the Indian Section of the

ioliated ornament It was, therefore, likely to appeal in every way to the Moghul taste and tradition, while the patient industry required in its production was no obstacle to the mastery of its technique by the oriental craftsmen who had executed the elaborate carvings at Futtehpore Sikri, in the previous reign

As the Moghul style, as a whole, shows the culmiShih Jehan 1628 nating point of Mahomedan archi
tecture in India, so the buildings
erected by Shah Jehan display
the very apen and summ t of that style. Like every
thing Oriental, the growth and development were more

In striking contrast to this building is the tomb of Ibrahim Adil Shah, which fascinates by its graceful proportions, the exquisite and elaborate character of

its carving, and the quiet beauty of The Ibrahim Rozah Admirably idapted as its setting the Arabic characters are for the purpose of decorative inscriptions, in few buildings can they have been more finely treated than in the numerous panels which so freely adorn the exterior and interior of this tomb as to be said to include the whole of the Koian The outer arcading has a deep coinice, supported by elaborately carved bracketing, and is crowned at each corner by a graceful minaret The dome is more bulbous in shape than are those of the Jumma Musjid or the

Gol Gomuz, and rests upon a somewhat concave drum, wrought into likeness of

the petals of a flower

Beside the tomb is a mosque to con respond, and the Royal gardens surrourd ing them are adorned with fountains and kiosks, and are flanked by colonnades and caravansera's for pilgrims

The ruins of the palaces, in one of which can be seen the front of the great Audience Hall with its arch 80 feet wide, and of other civil buildings, among which may be especially mentioned the gateway

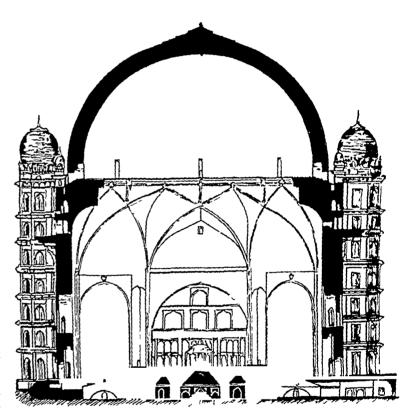
known as the Mehturi Palaces at Bijapur Mahal, bear ample testimony to the fact that the civil buildings of Bijapur possessed the same noble characteristics as those displayed in the mosques and tombs Of their extent and number, it is sufficient to say that they are thickly scattered throughout the niei enclosed within the gigantic walls which are 63 miles in circumference

now come to the culminating veriod of Mahomedan Aichitecture in India, that of the Moghuls Little iemains of the architecture of the last rulers of the Pathan Dynasty. Moghul Architecture or of that of the earliest of the Moghul invaders, although Babei according to his own account, every day employed over two thousand builders and stone carvers A few buildings, ascribed to Humayun and the usurper Shere Shah Siction of the Gold Gould Billier Showed the Commented of the Dome and his son Selim, exist, but the great building period of the Moghuls does

not begin until Akbai was firmly established in power One of his first works was to complete the tomb of Humayun, his father, in Old Delhi, where it is now seen to be in a state of almost perfect preservation

It is severe in style, being almost 4kbar, 1556-1605 destritute of ornament, but stand ing on its lofty platform it is an imposing and splendidly wrought structure His next building was the Red Palace in the Fort at Agin, which is purely Hindu in style and construction, but Moslem in its decorat ons

It is, however, at Futtehpore Sikii that Akbai must be judged as a bulder l uttehpore Sil 11 During his long reign of 49 years, it was his favourite residence. Here he erected a splended palace, a series of exquisite prealions, and a most noble mosque, the southern gatewity to which is generally igreed to be the finest portal of its kind in India, if not in the whole world. Volumes have been written upon these buildings, but they still fail to give the reader any idequate idea of the profusion of thought, labour, and money which must have been expended, before they were brought to completion, this can only be realized by a study of this great work upon the spot. The fort ind'palace it Allahabad, and his own tomb at Secundra, neu Agra, are two of the most important of the other buildings, which owe then existence to the genius of the greatest and most liberal minded of the Moghuls



The reputation of Jehangii as a builder has suffered by comparison with the genius of leh ingu, 1605 1627 both his father and his son, in this It was unfortunate for his future fame, direction that the few buildings of importance erected by him should have had for then site the City of Lahore, which Jehanga made his capital. The Great Mosque was built by him, but is surpassed in interest by that erected by his Vizii, chiefly on account of the resplen

dently coloured tiles with which the Lihoic surface of the latter is covered The tomb in which Jehangii and his imperious wife he buried was despoiled by the Sikhs, and used as a quarry, whence the marbles from which the temple at

The Minor Arts of India

THE Arts hitherto considered have been those which have been directly the outgrowth of architec No account of the Art of India, however, would be complete without due mention being made of those widely practised arts devoted to the service of reli gion, or the adornment of the palaces of persons of the powerful, and wealthy India has always been noted for the quantity of works dedicated to the one, and ap propriated to the other, pious devotion to their gods and lavish display of wealth being pronounced traits in the character of the greater portion of the inhabi tants of the peninsula In all those artistic crafts depending for their quality upon patient workmanship, they have excelled in the past, but as, on the one hand, India has never produced great painters or sculptors, such as Leonardo da Vinci, Benvenuto Cellini, oi other mediæval masters, whose training was begun in the workshops of goldsmiths and other craftsmen, so, on the other hand, the Indian craftsmen have never attained the level of the artistic taste of Japanese confreres With the exception of wood carving, which has gener Chief Artistic Crafts ally been associated with architec

ture, the most widely practised of the arts have been those of the goldsmith, the metal worker, and the weaver The conditions of Oriental life in the past have governed this Ornaments of precious metals have served the double purpose of oc casional display and extremely portable property advantages which forcibly appealed to every class of society in those periods of war and unrest in which India has been continually plunged from the dawn of her history to very recent times. The climate and habits of the people of India have naturally led to the development of textile manufacture, which has been made additionally easy by the growth of so workable a fibre as cotton within her borders. Wool was introduced by the races which entered India from the North, where the centres of weaving this material have generally been situated, while the origin of the silk industry is a matter of dispute among the various authorities interested in the question The carving of wory and hoin, and the working of lacquer are, however, indigenous and widely spread industries

GOLD, SILVER, AND OTHER METAL WORK

It is not necessary, even if space permitted, to enter into any detailed account of the processes followed by the Indian craftsmen in the production of their works in the precious and commoner metals. They differ but all ghtly from those used by the Greek Roman,

and modern metal workers. The works are cast, hammered, encrusted, or engraved. They show one quality, directly due to the social conditions of the country, as compared with similar works found in more

General character of gold and silver or naments settled areas, that of greater mas sixeness and solidity. Where per sonal ornaments are prized for the intrinsic value of the metal they con

tain, this is always likely to be the case, and where the melting pot is regarded as the probable destination of such articles, the quality of the workmanship expended upon them is of but secondary account. Destruction has undoubtedly overtaken the greater part of the Indian art manufactures of ancient times, used for secular purposes, and a knowledge of them is purely conjectural, but a comparison between the representation of the gold and silver ornaments of the gold and goddesses found upon the images in the lock cut temples, and similar objects made at a later

Similarity between ancient and modern types of ornuments

date, prove how little change has taken place in the character and uses of the various articles. The ornaments for the head, face,

arms, and legs, seen upon those monuments, are reproduced with almost startling fidelity upon the persons of the Indian women of the present day. They may vary in detail, but the general character is the same. The different nationalities, races, and castes of India have traditional patterns, and these patterns vary in different parts of the country, but their manufacture is carried out by means of one or other of the processes mentioned above.

The principal art cles for household or ceremonial requirements are bowls, sprinklers and hoxes, while extensive use is made of the precious metals in the embellishment of horse and elephant trappings, the enrichment of arms, and the decoration of thrones, makes and other portions of the regalia used on State occasions. Many of these latter articles are very picturesque, and contain excellent workmanship, though very few will bear comparison, as regards the last mentioned quality, with the Corporation makes and plate of Europe, not to mention the Crown plate of England, Germany, France or Austria. The Indian jewellers are far behind those of Europe in the setting of gems. The

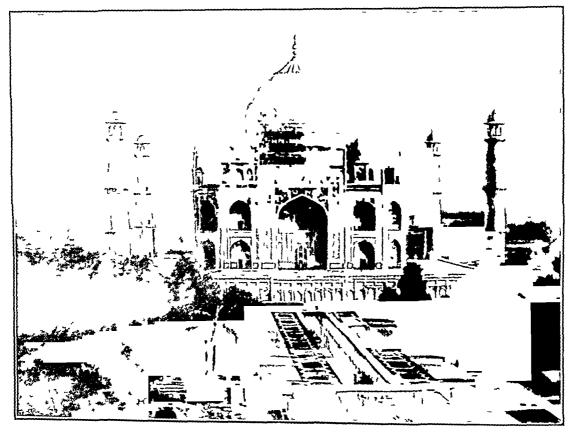
Indian Jewellerv unknown before their introduction from the West, the sheen and glitter of the gem being obtained by light reflected from tinsel placed behind the stone while many fine stones are to be met with that have been utterly ruined by bad cutting and by being perceed.

rapid than in the case of Western architecture, but the development is characterized by the same progress from sobriety and massiveness to elegance and refinement, perceptible in the development of Gothic architecture in England. As Salisbury Cathedral is to Durham or Norwich, so is the Faj at Agia to the tomb of Humayun, or the mosque at Futtehpore Sikii

As its development was more rapid, so wis its decay more sudden and complete, and no glorious after math, corresponding to the Tudor Chapels at Westmin ter or Cambridge renders its end beautiful

and venerable

It is one of the most impersonal buildings in existence. It is one of the most complete buildings to be found, not only in India, that land of abindoned ide is but in the whole world. This very perfection, and the sense of finality it produces, robs the lay, in a measure, of the element of mystery, and of that surgestion of human effort which renders the unfinished reliefs of Michiel Angelo more fasemiting than his. "Dividoor tempts the imagination to penetrate the mysteries of light and shidow in the facility of a Gotha Cathedral, such is Amiens. The instinct which prompts the visitor to see the Faj by mobalight is therefore in



THE IAJ MAHAL, ACRA

What a gap is there between the tomb of Rabia Duranee at Aurangabad, and the Taj at Agra, yet the former was built within 30 years of the latter. After that there is nothing except the vulgarities of the palaces of Lucknow

Shah Jehan's buildings at Agra and Delhi, culminating in the Tij Mahal, are so well known, and have been the subject of such countless descriptions as to

require no further recital of their glories

The Taj stands alone in the world for certain qualities all can appreciate, but, like every work of irt, its merits in one direction entail corresponding defects. Erected as a monument to the personal devotion of a husband to his wife, true one, for at that how the masterpiece of Shah Jehan is invested with the mystery it lacks in the full glare of daylight

Of its class, the Taj is perfect, but as to the relative artistic ments of the class to which it belongs, compared with the masterpieces of the West, such as the Parthenon, it is not possible to more than speculate. Tech mically and aesthetically, they may be considered equal, but the grand sculptures on the Parthenon rise to an intellectual level unapproached by the decorators of the Taj. No building in the East can bear comparison with it, and it is therefore fitting that the final words of the story of architecture in India should refer to the Taj Mahal

When all its artistic failings have been admitted. the ancient metal work of India had a character of its own, born of the intellect and requirements of the people India was for centuries removed from outside influences, except such as were eventually absorbed into the corporate body of her life. With the open ing of her ports to the influences of modern art and commerce, and with the gradual change in the habits, and the extensions of the needs of her wealthier classes, her indigenous forms have become debased by being applied to articles foreign to their traditional uses the same time, the decorations have become mixed with alien styles, until at present scarcely any purity exists in the metal work produced by native workmen meet the competition engendered by the influx of ma chine made articles from abroad, the workmanship has become slovenly, owing to the vain attempts of the ciaftsmen to produce the same apparent amount of design upon their goods, in a much shorter time sequently, the metal work of India has reached a state of debasement at the present time, such as it probably never experenced in the past The Government of Ind a and the local Governments are striving, by means of the establishment of Schools of Ait, to bring about a better state of affairs, but many years must elapse before the public and the craftsmen of India are trained to appreciate the value of simplicity in form and restraint in decoration to which so much of the best modern work in Europe owes its beauty

IEXTILES

The evidence of the earliest sculpture found in India, goes to show that long before her history obtained any written record, the crafts of the weaver had reached a high state of development. No specimers of the ancient textiles have come down to us, as they have done in Egypt. We therefore have to conjecture from the representations of drapery shown in the ancient carvings and in the paintings at the Caves of Ajanta, what the fabrics of that period were like There is I tile reason to suppose that they would have suffered by comparison with the products of a later date,

Antiquity of the Light of Weaving when India became more intimately known to the nations of Western Europe The favourable conditions for the production of fine textiles were the same from the earlest times, until those conditions had been mod fied by the invention of mechanical appliances in Europe These favourable circumstances were, a nation with a genius for designing intricate patterns and for patient labour, an ample and cheap food supply, in indigenous fibre capable of being worked up into the finest of webs, and in many parts, a climate

countr es where wool and flax were the only raw materials used in textile manufacture, it is easy to understand the astonish ment and wonder with which the thiny products of the looms of Dacca were regarded while the cheap lvig of the Indian artisan enabled his plain and printed calicos to be sold in markets that were closed to the more expensive silken fabrics of the nearer East. The Indian weavers had an additional markets and the solution of the solution of the more expensive silken fabrics of the nearer East.

peculiarly suited to delicate workmanship

tional advantage in possessing an ample indigenous supply of the substances used in dying, such as lac, indigo, saffron, and madder. Dacca has always been famous for the fineness of its cotton fabrics. They have been surpassed in delicacy, in recent years, by tissues made by machinery in England, but the more elaborate specimens still hold their own in the limited

market still available for their disposal. The extreme tenuity of the thread used in these mushins may be realised, when it is stated that the proportion of length to weight has been proved to be as much as 250 miles to a single pound of cotton, while so great is the labour entailed in weaving these delicate filaments, that the manufacture of a single length of To yards takes the combined labour of two weavers for the space of five months to complete. The yarn sometimes costs as much as Rs 50 per ounce, and the finished fabric has cost as much as Rs 50 to Rs 600 for a single piece. It is only during the monsoon months that these delicate threads can be spun, and the materials woven

The only other woven cotton fabrics calling for particular attention which have not been surpassed by the products of the looms of I auca-

Jamdani or Figur d shire are the Jamdani or figured mushins, which have been sold for as much as £5 per yard. Their manufacture is a most elaborate process, and is more in the nature of loom embroidery than of direct weaving, the characteristic appearance being that of a rich and opaque pattern placed upon a delicate and transparent web. It is impossible to do more than mention the important and striking part played by the dyer and the calico printer in relation to the cotton fabrics of India. The brilliant and picturesque colour effects, for which the streets of Indian cities are renowned, are due to his industry, and the inherent love of bright clothing among the people

The cotton weaving industry is undergoing a marked and rapid change in India In every cotton growing district factories are being built, fitted with

Change in the In dustry modern machinery driven by steam power Instead of being wide spread, the industry is becoming con centrated, and is likely to become more so, despite recent efforts made to enable the village handloom weaver to successfully compete with the factories, by the introduction of improved appliances Bombay and Ahmedabad are the chief centres of the cotton spinning industry, which is carried on also throughout Western, Central and Southern India

The silk industry was not an indigenous one, but was largely fostered, if it was not actually introduced, by the East India Company in the 17th centmry. It is a material that has appealed more to the Mahomedan than to any of the other races of India, and many gorgeous garments dating from the Moghul period, still exist to testify to the skill of the Indian weavers. The gold brocades, or 'Kinkhabs,' are, many of them, fit to compete with the best contemporary products of the looms of Flan ders, Italy and France, while the pure silken fabrics are remarkable for richness of colour and great tech

nical ingenuity

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The art of enamelling was probably introduced from Persia. The only variety met with in India worthy to be considered as an art, is that known as a lamelling the considered as an art, is that known as the considered as an art, is that known as a lamelling the engraved and chased in such a way is to provide depressions within which the colours are placed, the whole being then fired in a furnace, until the colours are fused. Jupin and I tucknow have always been noted centres for slver and gold utiles decorated in this manner. The varieties of metal work peculiar only to India are identically debased copies of lines, or more difficult processes, practised elsewhere. Bidri ware for instance is a coarse kind of substitute for true

pen ment materal for its base while the filling of the depressions in engraced brase and copper work with like is an easy method of overcoming the difficulties of true enamel, at the satisfice of the best qualities obtainable from the combination of colour with those metals. Enclustation of one metal upon mother, by means of which the Japanese metal workers

have produced such marrels of technical inscinuity and artistic effect, his not been much practised by the Indian workmen, though fine specimens, in which the representation of silver gods and other oral ments are supe imposed upon copper, have been made in past times in Mysore and Travancore in Southern

India

The quality of the precious metals used for ornaments in India is always open to the suspicion of impurity, in consequence of the absence of any standard

heing observed, or gurrantee being heing observed, or gurrantee being forthcoming, such as is given by the Hall Marks on English plate Suspicion is enhanced on account

Suspicion is enhanced on account of the proverbial failing of the "Sonit" to observe the ordinary dictates of commercial morality. This militates seriously against the reputation of Indian gold and silver work among connoisseurs, and is in obstacle to any improvement in the quality of the work manship. For the protection of the buyer, and in the true interest of the craft, it is most desirable that guarantees, similar to those given in England, regarding the quality of the metals used, should be introduced into India.

The great mass of the metal work specially devoted to the service of the temples, takes the form of cast or hammered images of the various Images n Temples derties of the Hindu Pantheon lamps, chains and bells. Many of these articles show an auvanced knowledge of the science of metal casting is doubtful if the waste was or core perdu method of the European and Japanese casters has ever been extensively practised in India The Indian brass and usual method appears to be to make copper casting a model of the image, and to first cast the object in two halves in some soft metal such as lead These halves are then worked up in detail and chased, and are pressed separately into the prepared

sand held in the two halves of an iron casting box. These are joined together and the molten metal poured

in When the cast is taken from the mould, it is often claborately chased and engrised, while in many mistances jewels of great value are set in the exes of the god or goddess, and in the ornamental details. These images of the Hindu gods naturally follow the types of the stone curvings on the exteriors and interiors of the temples. Occasionally, in image may be met with showing more freedom of uton than is the case with its stone prototype but the attraction of the infinites, whenever they possess my is owing to their finitistic, archive, or burbuic qualities rather than to their purely artistic ones. The lamps chains and bells often contain excellent east work and are extremely peturesque in effect and angenious in design.

origin, such is pin boxes, lot is bowls to where spindlers etcoure very line and the older ones show considerable artistic time with teste with regard to the quantity work.

The placed among them. The same applies to many of the older specimens of pwellery such is indicts and burgles, but the smaller articles are characterized by the full displaced in sometheol the craft with o'd ladic, namely overelaboration. Another tack which is noticeable in the metal worl of links, affailt which runs through the whole of their art is the apparent aisensibility of the workmen to what may be termed the

peculiar adaptablits of each separate material to artistic

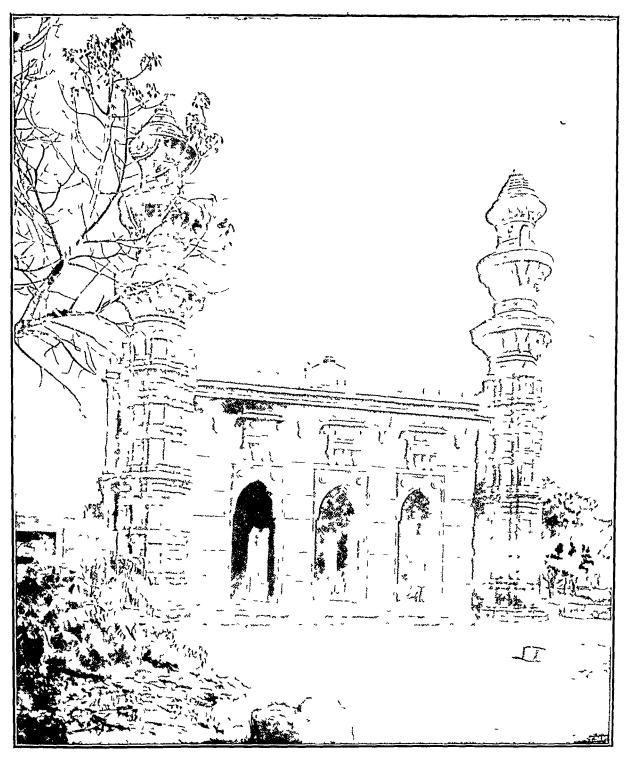
expression. This has not always been observed by Luropean craftsmen, but is characteristic of the best

In form, many of the beaten articles of indigenous

Uniform treatment of all materials by Indian cristismen and hard treatment of the workers in stone and hard treatment of metal is followed by the metal workers is adopted by the workers in stone. The beautiful flowing and bulbous forms, in low relief, growing out of the background found in the mediaty il metal work of the Italians, and the clean cut vigorous workmanship of the German

Gothe woodcarvers, is looked for in van in my Indian work. The same hard outlines, and more or less deeply mersed backgrounds, are seen repeatedly, in their stone and wood carving, as well as in their metal works.

A description of the metal work of India would be inadequate if it fuled to make mention of one of the most remulable of the rem uns of the past to be found in the country This is the wrought non pillar to the south of the City of Delli, new the Kutab Minar Its total length is fifty feet, only twenty two of which however, appear above the surface of the ground It is wrought in one piece and its weight is six tons How it was forged and erected at a time when mechanical appliances were so defective, has never been satisfactorily explained. Its exact composition appears to be also a mystery, for in spite of being to all appearance, non, it shows no disposition to just of ovydize The remarkable bronze cannon found throughout India also call for mention, but many of them, that for instance at Bijapur, were cast by Europeans in the service of the Mahomedan kings, and cannot be considered purely indigenous in their



Muhafiz Khan Mosque, Ahmedabad, showing the Jaina Construction and Details

The handloom silk we were use being gradually driven out of the world's markets by the competition of the factory made goods of Europe and Japan, while the establishment of mills in India is likely to hasten their extinction, except for such textiles is at in very limited demand by particular sections of the community

Benares, Ahmedabad, Surat Mushidabad, Madura, and Mysore, we the chief centres of the handloom industry while mills are successfully carried on in Bom

bay and Poona

Of all the woollen products of the world none have perhaps been so famous is those of Kashmir. The reputation of the shawls made in that Valley, and subsequently in the Punjab, has been justly very great. In many respects, no more beautiful fabrics have ever been made, but the industry has been practically numed by the cheap and crude imitations manufactured in Paisley during the last 50 years. In all other classes of woollen goods, the weavers are outclassed by their more in telligent rivals of the West although successful factories have in modern times been established in Northein India, notably at Campore.

Exception might be taken to the above sentence on account of the considerable trade in woollen pile carpets which now exists at Amritsar Kashmir and other centres, principally in Northern India Woollen

Carpets carpet-weiving, however, is not an indigenous Indian industry. It was introduced by the Mahomedan conquerors from Central Asia and Persia, where the finest wool for the purpose is grown. A celebrated factory wis established by Akbar at I ahoie, whence came some of the finest ancient carpets found in India as well as the splendid and interesting specimen which adorns the walls of the Girdleis Company, in the City of London. The designs when pure, are almost entirely Persian in origin, but many modein caipets, copied from fine originals, are entirely spoiled by alterations in their proportions, and the introduction of incongruous details. The worst faults in the modern Indian carpets are those of colouin this respect they fall far behind similar products of Persia and Asia Mipor.

It only remains to mention Indian embroidery to complete the sum of artistic textile work produced in India As elsewhere, this art may Embioidery be broadly divided into two divisions-bold work with cheap materials, and fine work with silk. Interesting work has been done in each of these branches in India The Kashmi embroidered shawls display extraordinary evidence of patient workmanship, and have been known to deceive experts, who have mistaken them for the woven variety. This is the only embioidery in India comparable with similar work by the Chinese and Japanese The rest of the Indian embroidery is far below it, and fails to reach the technical standard of the best mediæval work of Europe, while as regards ideas and taste in coloui, it takes a decidedly lower place than any of the foregoing

It has however a distinct character of its own which it should be the endersour of the inthorities to discrete for this is essentially in industry in which the cheipnes in lying of the Indian criffsmin waves him and integer in the world's markets over his western and

CARVING, PAINTING, LTC.

Ivory his always been extensively used in India for the decoration of furnature and cabinet work. Southern India is noted for it as well as for elaborate caryings in sandaly od. Much of the caryings in sandaly od. Much of the carying son the Drayidian Temples, but some of the more modern examples contain caryed panels in which hunting scenes are landscapes are represented with a consultrable degree of realism and delicately cut detail.

Ivory is largely used in the Bombay inlaid work in combination with abony stained wood and white metaland it forms the basis upon which the Delhi and other

miniatures ire printed

These minitures are the modern representatives of the old puntings illustrating the Korans and Manuscripts of the Moghul times. They show a great falling of from the originals, the best of which are fit to be placed beside the beautifully illuminated writings of the monks in Europe during the 11th 12th and 13th centuries. The art was brought to India by the Mahomedans, and is Persian in its origin. Many exquisite examples of single pictures are to be seen in the Calcutta School of Art, while a splendid collection of complete books is among the Art treasures of Jaipur and Uwar.

The decorative borders of the pages executed in colour and gold are wrought with the utmost ingenuity taste and care while the Arabic and Persian texts are beautiful specimens of caligraphy

Potters is the only irt remaining to be noticed The examples extant, coming within that term are also of Persian or gin. The tile work on the mosques in Sind and the Punjab have already been referred to as being exceptionally good in design and colour. The panels, containing texts from the Koran and surrounded by ingenously designed borders, are often very fine, but as regards the colour, it is a quest on as to how much the influence of time upon the soft glaze is responsible for their mellow harmony of blue white and given. Certain it is that the modern work especially fails in this respect although there appears to be little difference in the materials employed and the empirical methods followed in the processes upon which the result depends. The body in Indian pottery is dways defective when compared with the products of the Chinese, Japanese, and European kilns, and true porcelain is unknown. The art, therefore, lacks the variety, and extraordinary finish distinguishing the specimens from the Far East and the West, and this has reacted upon the artistic quality of the result.

CONCIUSION

To sum up the art and architecture of India, and to place it in its true position with reference to that of the extreme East and the West, is no simple matter, and can only be suggested in the small space as a lable It shows certain of the qualities of each, but cannot be said to have attained to the supremacy of either rugged grandeur of the Buddhist period might have been the forerunner of as perfect a manifestation as that of Greek art, which was the outcome of the monu mental styles of Egypt and Assyria, but it lost its way among the fantastic and composite forms of the gods of the Hindu Pantheon There was, in the craftwork of the earliest period, nothing inim cal to such purely asthetic and superb technical developments as are seen in the work of China and Japan, but it stereotyped itself into set and lifeless forms. To the character of the people must be assigned the determining cause acted upon by the climate of the country, and reacted upon by the religious influences developed. The patient Indian workman lacked the intellectual alertness of the European His mind, when in action, was turned inward, and therefore was prone to select forms and types evolved from his inner consciousness rather than from the objects surrounding him. These forms, as a consequence, became stereotyped, and the craftsmen became insensible to the decorative possibilities of na turn objects which is so keenly realised by the Japanese and Chinese artists. The Hindu religion inculcated idens of terror, inther than the screnity and beauty of the religious of the West, and as a result we have the d storted figures of the Hindu temples, in place of the calm beauty of the Greek, or the grace and pathos of the medieval art of Europe. The dominating influence of religion was exercised more acutely and decidedly in the art of India than was the case in the Far

East or West Secular art which played so important a part in the development of art in Purope and Japan was practically non existent in India before the army il of the Moghuls, and was then placed completely under the limitations imposed upon it by the teachings of the Koran The restraint fatal as it was to the free growth of artistic ideas, had the same effect as the rules of poetic form have had upon the works of the great poets By concentrating effort with n narrow lnes, it produced those masterpieces which culminated in the Tay Mahal, the most complete and perfect work of art India has to show Since its complet on, I tile worthy of the name of art, has been forthcoming and the in fluence of Western ideals and modes of thought have up to the present time, brought nothing but confusion and debasement upon such traditional art as has sur-The outlook for the mmedate future of Indian art is most unpromising, and so far is can it present be seen it will take generations to build up a new and national style based upon the climate conditions of the country and the peculiar genius of the people, such as characterized so much of the incient art and architecture of India

POOKS OF REFIRENCE

Fergusson's "History of Indian Architecture
Vionographs upon Indian Art and Architecture
Government of India
Sir G Watt's 'Indian Art at Delhi
Sir S Birdwood's "Artistic Crafts of India"
The Journal of Indian Art
Reports of the Archwological Survey of India
Government of India
Colonel Hendley's "The Art Treasures of Jespur
"Ulwar and its Art Treasures
Fergusson's "Bijapur
"Ahmedabad"
"The Cave Temples of India



of St Thomas at Malabai A Franciscan traveller of the same date, John of Monte Corvino, calls on his way to China at the Church of St Thomas in India, where he finds a few Christians who are of little weight, and persecuted by their neighbours. About 1321, one friar Jordanus, accompanied by some companions of the Dominican and Franciscan Orders, landed on the Konkan coast, where he found some scattered Christians, unbaptised and ignorant of their faith nus went to Baroda, while his four comparions, who remained at Thana, were put to death by the vioslems in 1322 (Maityls of Thana) About the same year Friai Oderic arrived at the place, collected the bones of the martyrs, and then passed down the coast to Outlon, where he found Christians—and also to Mobar, where he saw fifteen houses of the Nestorians In 1328 Pope John consecrated Friar Jordanus Bishop of Qui lon, and sent him to the Nazarenes (as the Malabar Christians were called), but it is not known whether he re iched his destination About 1340 a Vestorian, Ann, son of Matthew, mentions the tomb of St Thomas in the perinsula of Meilan In 1349 Bishop John de Merignolli mentions the Thomas Christians at Quilon, and the tomb of St Thomas at Malabar or Mirapolis In 1425, Nicolo de Conte mentions the body of St Thomas preserved at Malepur, and venerated by Nes At this time it is said that the Thomas Christians on the west coast were sufficiently powerful to create for themselves a dynasty of kings and in 1420 Pope Eugenius IV sent envoys to one of them (Thomas, Emperor of the Indians) whose subjects he describes as being true Christians The embassy how-Meantime the ever did not reach its destination Christians on the east coast seem to have fled from Mylapore to Malabar to avoid persecution, leaving the shine of St. Thomas to fall into ruin. This is intimated by some Nestorian bishops of Malabar, who had been sent out in answer to an appeal made by the Thomas Christians in 1490, and who in 1504 wrote to their patriaich describing the condition of things in India

When the Portuguese reached India in 1498, they found the Thomas Christians an organized and Joverful body, but accused them of Nestorianism in rite and creed in 1530 missionaries were sent from Goa to Travancore to work for their conversion, and when the time was ripe, a great synod was summored at Diam per in 1599, in which the Thomas Christians jointly professed illegiance to the Pope A new See was es tablished at Angumali in 1600 (transferred to Cranganore in 1605), and Jesuit bishops were placed therein to rule over the new community However, a series of more or less domestic quarrels led to a serious revolt In 1657 some Carmelite missionaries were sent from Rome to compose matters, and succeeded in bringing the great majority back to Catholic unity On account of this success the Jesuit prelates were set aside and the Carmelites took their place, and the united Thomas Christians, despite occasional dissensions, have been true to their allegiance ever since At the present time their total number amounts to about 350,000 who are under the jurisdiction of the three Vicars Apostolic of Frichur, Ernakulam and Changanacherry account of the use of a Syriac liturgy they are generally known as Syro Malabaicse or Syrian Catholics

Of those who remained in a state of separation, the greater number soon fell under the influence of a bishop named Mar Gregory, sent out by the Patriarch of Antioch in 1665, and embraced the Monophysite or Jacobite doctrine. A certain number of them maintained at present a form of belief and worsh p somewhat akin to Protestanism, but no Nestorian sect is discoverable among them

(2) PORTUGUESE MISSIONARY ENTERPRISE

Besides working for the union of the Thomas or Syrian Christians, the Portuguese devoted themselves to bringing over the Hindus and Mahomedans to the Catho lic faith From the year 1500, Franciscan, Dominican and Augustinian missionaries flocked to India, and gradually covered the Portuguese settlements with churches, monasteries, schools, orphanages and commu nities of converts [Cannanore 1500, Cochin 1506, Goa 1510, Chaul 1512, Calicut 1513, Damaun 1531, Bombay, Salsette and Bassein 1534, Diu 1535, etc.] The first Jesuit, St Francis Xavier, arrived in 1542, and inaugurated a wider range of missionary enter-After working with success along the Malabar and Comorin districts, he passed over to the Coroman del coast as far as Mylapore, and ther to China and Japan, dying on one of his voyages in 1552 His conipanions and followers besides establishing themselves in the Poituguese territories, carried on his wider policy with success With the Franciscans they took a prominent part in working for the Thomas Christians, but, together with the other orders, they also commenc ed missionary work in the interior The Madura Mission, which had been started in 1596 by Father Fernan dez, a priest from Goa, was taken up by the Jesuit Robert de Nobili on new lines in 1606 His policy was one of conformity to Indian habits of hving, in order to break down prejudice and to bring the Hindus more directly under Christian influence His methods proved successful-not among the Brahmins, of whom he converted very few, -but among others of the higher castes But this mode of procedure soon excited the suspicion of Father Fernandez and others. who lodged against him the accusation of unduly com promising the principles of Catholic faith and prac-The question was investigated at Goa in 1616 and then referred to the Pope, who in 1623 gave a verdict substantially in favour of de Nobili The dispute, however, was revived at a later date, and this, as well as a similar question which had arisen in China, was settled by a decree of Clement IX in 1715, clinched by Benedict XIV in 1742, which imposed certain definite restrictions on the kind of concessions to be allowed (Chinese and Malabar rites) Meantime, mission work in the Madura district grew and pros pered, its ramifications spreading almost as far northwards as the river Kistna, with some sporadic efforts beyond it, especially along the liver lines and coast lines, and to some evtent even as far as Delhi, Pegu, Arracan, Bengal, etc.

The spread of missionary enterprise was naturally followed by a system of church organization In 1534 Goa became a diocese suffragan to Funchal in Madeira, with a jurisdiction extending indefinitely over all past,

Roman Catholic Church in India.

(1) THE THOMAS CHRISTIANS AND THEIR RILATIONS WITH THE PORTUGUESE, (2) PORTUGUESE MISSIGNARY ENTERPRISE, (3) PROPAGANDA MISSIONARY ENTLAPRISI, (4) THE JURISDICTION STRUGGLE, (5) THE ESTABLISHMENT OF THE HIERARCHY, (6) THE JURISDICTION SETTLEMINT, (7) POPULATION, DISTRIBUTION, LIC, (8) MISSIONARY METHODS, (9) NATIONALITY OF THE CIFRGY, (10) SCHOOLS, INSTITUTIONS, ETC, (11) CHURCHES, ARCHAOLOGY, ETC, (12) LITERARY ENTERPRISE, (13) LITERATURE OF THE SUBJECT

(1) THE THOMAS CHRISTIANS

Before the advent of the Portuguese in 1498 the history of Christianity in India is practically identical with the history of the Thomas Christians of the

Malabar coast According to a tradition tenaciously maintained amongst them, their conversion was in the first instance due to the Apostle St Thomas who, landing at Cranganore, laboured first on the Mala bu coast, and then passed over to Mylapore (near Madras) where he suffered death by martyidom This tradition is supported in pirt by the Acta Thomas, probably dating from the second century, which tells Thomas how St first preached at the court of one Gondophares [now iden tified as an Indo Parthian king on the N-W frontier of India], and then passed on to other parts of India The remains of St Thomas, which were first interred at Mylapore, were later on transferred to Edessa, as St Ephiem in the fourth cen tury testifies, and later still, in the thirteenth century, to Ortona in Italy The grave itself and certain relics are still shown at San Thome, Mylapore, as well as the

scene of his martyrdom on St. Thomas's Mount, five miles away. Whatever view may be taken of this tradition, which contains nothing improbable in itself, at least the existence of Christians in India is witnessed to by the signature at the Council

of Nice (A D 325) of "John Bishop of Persic and Greater India"—though even here the term "Greater India"—though even here the term "Greater India"—any he regalled as amb guous. Another witness appears in Thomas Cina, who in the fourth century, or later, found a Christian Church flourishing in Malibar, and brought with him a colony of 400 Christians from Bagdia, Nineveh, and Jerusalem. But the date of this e ent is much disputed. The first definite authority, therefore, is Cosmas Indicopleustes, who in about A D 535 found Christian churches with their clergy in Ceylon, interior India and Male (Malabar) as well as a bishop at Kahana (Kalyan, near Bombay). These Christians were under the Catholicus of Persia, and are generally supposed by that time to have become Nestonians. In the year 500, Gregory of Tours recounts the

narrative of one Theodore, who had witnesse I the feast of St Thomas both in India and at Edessa Shortly after this time it seems that, through quarrel between the Persian and Babylonian Patriarchs, India was deprived of its clergy, so that in A D 650 the country is described as being in a state of darkness for lack of religious instruc-We read of the visit of a Jacobite Bishop in about AD 696 In the verr 775 we learn that there was a clu cal seminary at Kottaya and that the Christians had a recognized position in the country. The Church of India 18 named amongst others in a Persian Syrod of 852 An embassy was sent by King Alfred the Great to the shrine of St Thomas in 883 Agair, in 1129 we are told that the Catholicus of Bagdad sent a Nestonan Bishop called Mai John III to Malabai but beyond these scanty details, lus-



The late Archbishop Goethals

tory is practically silent about Christianity in India till the thirteenth century

A period of more frequent and connected records begins in 1293, when Marco Polo in his travels finds a colony of Christians at Malabai, and speaks of the body

many churches outside Portuguese limits, and ought not to be ousted from them (to In Bomb it, from time to time (1786 1794 1812 1813 1819) efforts were made with the British Government to remetate the Goin clergy who had been expelled in 1718, but without perminent result. In other parts of the coun try the vicus apostolic met with resistance wherever they tried to enter into po ossion of church's or dis tricts occupied by the Goin clerky, and the situation was permanently strained. The conflict thus comm acel his by many winters for called Partugues Schem with describing was applied to the situation in several the Go in S Justin etc. and the official docum ats assued at Rome hower, repudisted by the Portugue Puty on the ground that they were merely test iting for then conomical rights , , The term wis,

In 1838 Pope Gresort VI, hopms to put 1 stop to the conflict by a clear exercise of his authority, issued Brief suppressing the Padroado Scoot Mylapore, Crin Smore and Cochin subjecting their territories to the Juris he tion of the nearest views postolic is their only lesitimate ordinates the measure meterd of haying the desired effect only made matters worse most the result was a fresh outbreak of resist mee which went on for vents without infermission. In 1857 the Holy See Partially vielded to the eds nears of the time and a Concord it was drawn up which, while partially all tying the conflict fuled to issue in sitisfactory is sults In 1886, Pope Leo VIII determined to take the whole matter in hand with the object of a final Portugal and the Holy See, by which the Sees of Cochin I new Concordit was entered into bety cen and Mylpore were ternstated and a new docese (that of Damain) established and comprised under the province of Got which thus includes three loceses, Cutirely in British territory

(5) ESTABLISHMENT OF THE HIPRARCHY

At the same time it was decreed by Pope Leo VIII that the whole of India and fevior should be placed under 1 properly constituted hierarchy Men Agharda 15 Delegate Apostolic of the Indies, was appointed to execute this scheme, and his work was afterwards curried on, first by Mgr Ajuti, and then by Mgi Aleski, the present Delegate Apostolic, whose residence is at Kindy in Cevlon—The new hierarchy consisted of cight provinces, that is to 50%, eight irchbishopies, each sur rounded by a group of bishopics, vicaniales of prefer tures apostolic This organization, after a few subse quent idjustments now stands is follows

(i) The Archbishof is of con with its suffit is in Sees of Damann Cochin and San Thoms of Willipote [prdro id | jurisdiction]

(n) The Archbishopric of Calcutta, with its suffra g in Sees of Krishnag ii and Direct, and the prefective apostolic of Assam [This and ill that follow are of Propaganda Junsdiction]

(in) The Archbishopic of Andras, with its suffin gan Sees of VIV ig ipalan, Ilvduabad, and Vagnus (iv) The Archbishopic of Bomby with its suffragin Sees of Poon 1, Many dore, and Irichinopoly

(v) The Archbiehoptic of Pordicherry, with its suffiak in Sees | Mysore Combitone an I Kumbakon un (vi) The Archbishopia of Verypoly Suffrig in diocese of Quilon Also the three vicinities ip stolic of Inchin I mal ul un and Changan icherry (Homas Chustians)

(n) The Archbishopic of Agra, Suffrigin Sees of All thinh id and Libore, and its pie fectures apostolic of Bettish Cashmeto and Rajputana (vin) The Archbishoptic of Cevlon (Colombo), with with its

its suffrag in Sees of Jaffin i, Kindy Galle and Irin With these may be mentioned the territory of burns, founded as one Mearinte in 1722 divided into two in 1879 and into three in 1886

(6) THE TURISDICTION SETTIEMENT

According to its normal regime the Catholic Church s divided into dioceses with clear territorial limits all tesidents of which metalled by the bishop of that diocese The cunion however at virious times of portions of the cumon nowever to vinous times of portions of the separated distension churches gave rise to special urinkements in certain places. Thus, communities of the content of United Greeks Armenians of Copts residing side by side with Catholics of the Latin inte sometimes have a bishop of their own rite who holds, not a territorial, but 3 personal jurisdiction over the individuals of that This irrangement is popularly known as a double jurisdiction and for yatious reasons, there may be, within the general himits of a given diocest, cert in even pted clurches if sched to mother hocese from which they are geo graphically separated, and this is also popularly called double Jurisdiction, that in another sense of the

The condition of affine in author in Indian 1886 Includes Certain list inces of two fold jurisdiction of both the kinds just described. The first case is that of Bombiy Island, the second applies to certain single church connected with the Goa, D main, Bon bay and Wilapore dioceses I len details will be necessary to make the situation clear

(a) Bombas 1/md - seconding to the Concordat of 1886 the province of Gor comprises the four dioceses of God Cochin Dimain and Sin Thome (Wylapore) These were made to include what had formerly been the principal centres of Portuguese influence Archdiocese of (102 comprises 2 tract of coast lying north and south of Go 1 with the addition of the Ghaut and Can tra districts that of Cochin covers two sepa tha Can ir a district, that of Cocinin covers two sepa of Mylapote certain portions of the eastern sea border, while the diocese of D im un includes the coast strip below the Ghants, stretching as far north as the river Neibudda, and southwards along the munland, past Bombry, is fir as the fiver Savetir-being this conti guous to the Aichdiocese of Goa Salsette Island, mimediately north of Bombay Island was also included, but Bomb w Island itself was reserved for the Arch bishopric of Bombay Hence the curious fact that except for Bomb ty Island, the whole of the archdiocese of Bombay lies far away to the north, commer cing from the Nerbudd 111 'er and stretching deross Sind as far as

present, and future Portuguese possessions, from the Cape of Good Hope to China In 1557 Goa became an independent Archbishoptic, and a new suffragan See was created at Cochin In 1600 a third See was created at Angamali (transferred to Cranganoie in 1605) for sake of the united Thomas Christians, while in 1606 a fourth See was created at San Thome (Mylapore, near Madras) having its jurisdiction extending over the Coronandel Coast, Crissa, Bengal and alicient Pegu (Burina) By irequently repeated declarations of Rome from 1534 to 1606, the patronage of these Sees was conferred on the King of Portugal who together with the privilege of nomination took upon himself also the duty of enlowment. This brought into existence the "Padroado" or Portuguese patronage, which figured so prominently in subsequent history, and gave occasion to a long sustained jurisdiction conflict, of

which we shall now trace the origin

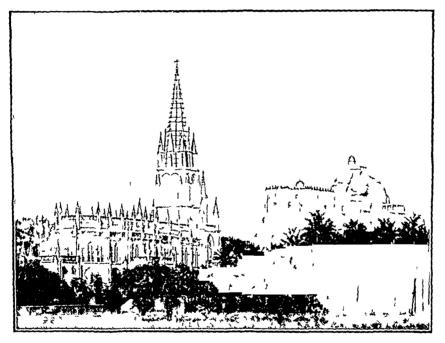
(3) PROPAGAN DA MISSIONARY ENTERPRISE

The Congre gation of the Propaganda 15 an institution founded at Rome in the year 1622 for the purpose of promoting the propagation of the Faith in Pagan lands Its method of procedure is to send out batches of mis sional es to various un worked cour tries, under the rulership of vicars apostolic,

who derive their jurisdiction directly from the Pope It was just at the time when this Congregation was tounded that the power of the Portuguese in India They not only ceased to acquire began to decline new territory, but gradually lost the greater part of what they had possessed (Ceylor 1656, Negapatam 1660 Bombay, by cession, 1661, Cranganore 1662, Cochin 1663 etc) till they ended by retuining only Goa, Damaun, and Diu for themselves With a decline of political power came naturally a decline of support for missionary enterprise This and other causes, too complicated to be discussed here, led the Holy See through the medium of propaganda, to take other and independent means to provide for the needs of Missionaries were sent out to various parts of India, and a series of vicars apostolic were appointed The Vicar of Malabar has already been mentioned

(1657) But the earliest of them all was a V car of the Decean in 1637, afterwards called the Vicar of the Great Moghul When in 1718 the British Government of Bombay, for political reasons, expelled the Goan clergy from that island, the Vicar of the Great Moghul, with the approval of Rome, accepted the invitation to occupy their place, and thus became Vicar Apostolic of This was followed by the appointment of a Bombay Vicar of Burma in 1722 In the year 1700 or there abouts the Jesuits of the new Trench settlement of Pon dicherry started a Mission in the Carnatic, and when the Society of Jesus was proscribed by the Portuguese Government in 1759, and suppressed by the Holy See in 1773, other French miss onaries were appointed to work the vacated districts of the Carratic as well as of Madura In 1826 a Vicar of Thibet was established, in 1834 Vicars of Bengal, Midras and Cevlon, in 1863

Madura and Coromandel, in 1845, Agra, Patna and Jaffna, m 1850 Vicars of East and West Ben gal, Pondi cherry, Coim batore, Mysore and Vizagapa tam, Hydera had in 1851, Mangalore, Outlon and Verapoly 1853, Poona in 1854, Punjah in 1880, Kandy n 1883, etc --and similarly in other eastern countries



CHAPEL OF ST JOSEPH'S COLLEGE TRICHINOPOLY

(4) THE JURISDICTION STRUGGLE

This action

of Rome gave rise to a complaint from the Portuguese side that their ancient jurisdictions were being encroached upon Already in 1659 Pope Alexander VII had proclaimed the principle that the right of patronage must lapse where its purposes were no longer fulfilled (cited in Meurin Concordat Qn, p 4), and in 1673 Pope Clement X had, in various ways, asserted the rightful position of his vicars apostolic, and then freedom from Goan (cf Bullarium Pationatus, Vol II, On the other hand, the Portuguese urisdiction pp 133 136) party mantained that the royal pitronage had been established by canor law and bilateral contract, and was incapable of recision except by mutual consent that according to the terms of the grant it ex tended to all past, present, and future acquisitions of Portugue, and ought not to be curtailed, that, in any case, the Goan clergy were actually in possession of

percentage of Europeans belonging to the Army, Government and Civil Service, Rulways, etc., and a number of Eurosians. The Catholic population is most dense among the Thomas Christians of Fravancore, where the eccles astical divisions are of the smallest. The coast districts east and west and especially in the south of the peninsula, the scene of the Portuguese and French missions come next in order of numbers, and here the dioceses are larger. The nearer we approach the north the more scenty the Catholic population be comes, hence the proxince of Agra, which in dimensions covers almost as much space as the other seven

provinces taken together possesses the smallest number of Catholic in habitants—this being the field which has only begun to be worked in strictly recent times. This interesting fact will be apparent from the following figures giving the population of the eight provinces in descending scale—

(1) Goa, comprising the old missionary districts of Goa, Konkan Mylapore Taniore, Cochin 562 875

Cochin, 562,875
(ii) Verapoly mostly Thomas Christians of Travancore 483,571

(a) Bombay, compasing old missionary districts of Bombay, Deccan, Mangalore, Madura, etc. 342 172

(iv) Pondicherry, comprising old cast coast mass ons with the French missions of the Carnat c, Misore, etc., 310 Sqr

(1) Ceylon largely worked by the Portupuese missionaries, 290 459

(vi) Madras, a portion of former Portuguese missions, the interior almost unworked by the old missionaries, 85,607

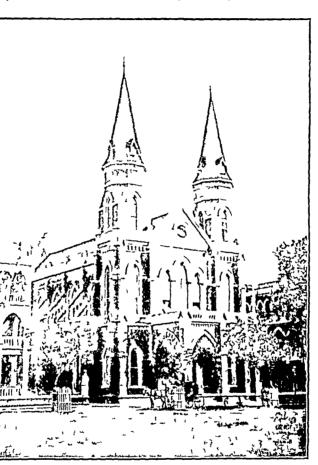
(vn) Calcutta, only slightly touched by the Portuguese, 85,011

(viii) Agra, almost altogether untouched by the Portuguese, 31,046

(8) MISSIONARY METHODS

From the above comparison it will appear that the Portuguese certainly succeeded in bringing over vist numbers to the faith. Hence it will be of interest to see how they secured this advantage. Much more has

been written in attack than in defence of their methods. The drastic style in which they broke down idol temples and fouled sacred tanks raises a very questionable point, both of ethics and of expediency. While on the one hand it enabled the Christian converts to break more easily with their pagan associations, on the other it created a deepfelt grievance among the unconverted population, which alienated their sympathies, and created a feeling of dislike which some consider to have hastened the fall of the Portuguese regime. Then, again, the reprisals made at visious times, on the plea of protecting Christian converts against persecution,



CHURCH OF THE HOLY NAME BOMBAY

contributed to the same result The Portuguese, however, certainly did not owe their missionary success to the use of physical force In the Portuguese territories. they attached certain civil advantages to conversion, and certain corresponding disadvantages to non conversion They made a great show over the baptism of natives of rank or position which created a favourable impression on all beholders The no of Goa stood bility sponsors to the neophy tes even of the lowest rank, and conferred on them then own family names the missionaires also took advantage of incidental circum stances, as for instance, when cutan fishermen of the coast came to plead for protection against the Voslems and showed a willingness to becone Christians in ieturn foi such protec tion Moreover, the religious orders did so much by means of schools, orphanages and hospitals, as well as com mercial and industrial

organ, zition, to piomote the temporal well being of those under their charge, that this also may be reckoned an additional inducement to conversion. In districts removed from the direct influence of the State, the methods adopted were exclusively those of example, instruction and persuasion. Only in one or two 150 lated cases was actual force exercised to make converts. It is often, though wrongly, assumed that the Inquisition was used for this purpose. The Inquisition was founded at Goa in 1560, in answer to a request of St. Francis Xavier himself, whose spirit was far removed from that of coercive evangelisation. It

Ouetta, while Bombay Island, the centre of the Sec, is surrounded on all sides by a different diocese which

belongs to the padiondo judisdiction

Thus far the limits of the two dioceses were defined territorially, so as to stand quite distinct. But ii Bom bay the situation was peculiar. Pesides the native Christians indigenous to the island, there existed a much larger community of immigrants from Goa, who had come thither at various times and were continually flocking in Broadly speaking, the indigenous Chris tians (known as Bombay Fast Indians) who were al ready under propaganda, naturally fell under the territorial jurisdiction of the Archbishop of Bombay, while the Goan residents in Bombay - future new comers

from the padroado disturts being includedwere placed under the personal jurisdiction of the B shop of Damaun, and a certain number of churches in the island were assigned to then use The subjects of the two groups are allowed to attend each others' churches and to receive the saciaments of Penance and the Eucharist promiscuously in them, but marriages, extreme unction and burials are reserved by strict right to the two sets of clergy, each for their own subjects Out of a total Cathohe population of nearly 35 000 in Bombay Island, about 8,000 belong terri torially to the Archbishop of Bombay, while about 27 000 are under the per sonal jurisdiction of the Bishop of Damaun

(b) Outside Bombay Island -In various other parts of India there also exists a "double jurisdic tion" but in a different While determining the general limits of the

different dioceses in 1886, it was found that certain churches within the projected padroado limits were firmly in possession of propaganda, while certain churches in the projected propaganda districts were strongly attached to the padroado jurisdiction Hence it was agreed to assign these isolated communities to the jurisdiction of their preference These cases fall into three groups -(I) In the island of Sal sette, which territorially belongs to Damaun, the Arch b shop of Bombay holds the allegiance of five churches, of which St Peter's, Bandra, is the chief (2) In the diocese of Poona, which is under a propaganda bishop, one church in Poona itself is under the jurisdiction of Got (3) In the coocese of Madra, there are five churches, n the diocese of Tuchiropoly 14, in the

Archdiocese of Calcutta, 3, and in the diocese of Dacia 6 churches, all of which belong to the diocese of Myla-The jurisdiction over the congregations of these churches is personal, with certain special arrangements as to newcomers. These exempted churches have uptly been described as so many islands, and their congregations as so many colonies, belonging to the diocese from which they are geographically separated

Bes des these cases of double jurisdiction, it may be mentioned that in Travancore the Latin and the Syrian Catholics are under different prelates, and this has been arranged partly by territorial and partly by personal purisdiction. The diocese of Pondicherry, too, comprises, extra limites certain separated districts, such

as Karikal in Tanjore, Mahe on the Malabar coast, Chandernagore nen Calcutta, etc these are all isolated French possessions, and the jurisdiction is strictly

territorial



Right Rev LEO MEURIN, S J The last Vicar Apostolic of Bombay 1867-1887

(7) POPULATION, DISTRIBUTION, ETC

The limits of the viri ous dioceses coincide in some parts with the civil boundaries, but are often determined rather by natural features, such as mountain ranges, rivers. and even means of railway communication By in specting a map published in The Frammer (Bombay) of J muary 19th, 1907, it will be seen that they vary considerably in size —a fact chiefly accounted for by the numbers of the Catholic population As calculated for the year 1904, this amounts in the aggregate for all India and Cevlon, to about 2,191,362 out of a total population

which is not included, reckons its Catholic popula tion at about 65,000 As far as statistics can be procured, the total number of Catholics in British India (not including Burma or Ceylon) in 1857 was In 1885 they had risen to 1,030,100, and in 1904 to 1,562,186 In Portuguese territory the figures for 1885 were about 252 477, and in 1906 about 293 655 In French territory they now stand at about 25,859, in Buima 65,127, and in Ceylon, It should be added that these figures include 290,450 only such as are genuine numbers of the Church—all converts being subjected to careful tests and instruction before admission. These numbers are mostly made up of native Christians, partly of the higher but chiefly of the lower castes, together with a certain

(c) For the education of Girls—59 high schools with 2744 pupils, 244 middle schools with 14574 pupils, 672 elementary schools with 41,451 pupils 70 various other schools with 2,521 pupils, 103 boarding schools with 4,700 boarders, and 126 orphanages with 7,084 inmates

The total number under education amounts to 143,051 boxs and 73,164 girls, out of whom 11,938

are orphans

The schools for boys are in all cases under clerical management and are taught by professors belonging to the religious orders or congregations assisted by lay masters. The girls' schools are for the most part under Sisters of different religious congregations.



Most Rev J Cours DD Catholic Archbishop of Madris

of whom they are 3,057 members in India and Ceylon, also assisted by lay teachers. In many of the schools non Catholic pupils are freely admitted, and in a few of them these form the overwhelming majority.

Among the most important of these institutions

the following must be mentioned -

11

(a) University Colleges with High Schools attached St Xavier's College, Calcutti, under the Belgian Jesuits about 276+404 students, St Xavier's College, Bombay, under the German Jesuits, about 350+1,400 students, St Joseph's College, Trichinopoly, under the French Jesuits, about 420+1,400 students Smaller university colleges with high schools exist at Mylapore, Cuddalore, Mangalore, Bangalore, Nagpur and Agra

(b) High Schools—St Joseph's Boarding School, Darjeching under the Belgian Jesuits, about 207 pupils, St Joseph's Boarding School, Calcutta, under the Christ an Brotheis, 1,000 pupils, St Mary's Boarding School, Bombay, about 517 pupils, St Xavier's, Calcutta St Vavier's, Bombay, and the "Chive" High School Trichinopoly (already mentioned under University colleges) St Vincent's Day School, Poona, with about 300 pupils, St Aloysius' College, Mangalore, under the Italian Jesuits, 615 pupils, St Joseph's College, Colombo, under the Oblates of Mary Immaculate, 800 pupils, St Benedict's Institute, Colombo (Caylon), 1,000 pupils, besides a number of smaller schools, the totals of which have already been given



Most Rev L M ZALESKI
Delegate Apostolic of the East Indies

Of these institutions some pay their own way financially assisted by Government grants in aid, while the rest are subsidized by diocesan or private contributions. As for the general question of finance, Hunter observes that "the Roman Catholics work in India with slender pecuniary resources, deriving their main support from two great Catholic organizations [in Europe], the Association for the Propagation of the Frith, and the Society of the Holy Childhood." Among other resources may be added private charities from Europe, incidental donations, and careful investments in property in India. The contributions of the faithful form a proportionately small item in the whole Hunter continues.—The "Roman Catholic clergy in many districts" live the frugal and "abste"

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Right Rev Dr FABIAN ANTHONY DESTERMANS OC

Catholic Bishop of Lahore

ent religious Orders, collections of official documents, monographs on particular missions, and biographies of eminent missionaries—as well as occasional literature of various kinds. Some rather scanty general histories have been written by Protestants, but most of them are vitiated by a marked animus aguist Roman Catholicism, and have to be read with caution The following is a somewhat promiscuous list of works, most of which are easily accessible -

On the Thomas Christiers -Mackenzie Christianity in Travancore 1001 Medijecti India and the Apo the St. Thomas 2005 Raulin Historia Lee'esia Malabarica Geddes The Church of Malabar and the Synod of Diamper 1604 Philipos the Syrian Church in India 1802 Kenner St. Thomas the Apostle of Malabar 1866 Milne Rae, Ssrian Church in India 1892

Thomas 1864 Coverning the P ringuese -

> Lafitan D convertes Conquetes des Portuguris O Chroni to de Tissuori Faring Souza Asia Portii guesa, 1655 Du Barros Deceadas 1777 Dellon Relacion (c. 1

> Howard Christians of St

Inquisition de Gon Bullarium Pitronatus Por tugallia Regum, 1868 Fonseca Sketch of the City of Go1 1878 Torrie, Estatistica de India

Portuguesa 1870 DeSouza Oriente Conquis tada 1881

D Orsey Portuguese Dis Dependencies and Missions 1803 Danvers, The Portuguese in

Logi sibul O Oriente Porfuguez Gouver, Jornada de Arce bispo de Goa 1600

On the Jurisdiction Struggle -Life of Hartmann 1868 Strickland, the Goa Schism 1853

A copiou p implifet litera-ture dating from 1858 to 1893, all out of print

Monographs and Biographies -Lettres Ldisiantes et Curieus es par M 1780

Lettres Edifiantes et Curieus
es par M 1780
Bertrand, Memoires Histori
ques sur les Missions,
1847, In Mission du Midure, 1854 I etters
Edifiantes et Cureuses,
Madura 1865
Saint Cyr La Mission du Midure, 1849
Guchen, Cinquanti Ans au Midure, 1849
Guchen, Cinquanti Ans au Midure 1887
Moore, History of the Mingalore Mission
Sunu L Inde Tamoule, 1901
Litteræ Annure Soc Jesu 17573 seq
Rerum a Soc Jesu in Oriente ge tarum Volumen, 1574
Carrez, Atlas Geographicus S J, 1900
Goldie, First Christian Mi sion to the Great Mogul, 1897
La Mission de Vizrapapham, 1800
Tenant Christianiy in Ceylon
Fortunat, Au Pays des Rayus (Rayputana) 1906
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Monumenta Naveriana Midrid 1900
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Suau, Mgr Alexis Canoz 1891
Zaleski Les Martyrs de I Inde, 1900
General and Sundry
Miffrei, Historiarum Indicarum I ibri, 1593
De Houdt Historia General des Voyages 1753

Massier, Historiarum Indicarum I ibri, 1593 De Houdt, Histoire General des Voyages 1753

Lieffentaller Benouilli, Description de 1 Inde, 1786 Paulinusa S Bartholm to India Orientalis Christiana, 1794 Mirray Discoveries and Irivels in Asia, 1820 Hough Christianity in India, 1839 Mullbauer Geschichete der Kath Missionen in Ostindien 1852 Marshall Christian Missions 1862 Werner, Atlas des Missions Catholiques, 1886 also Orbis Terrarum Catholicus 1890 Smith, the Conversions of India 1893 Strickland The Jesuits in India 1852 Catholic Missions in S India 1865

Croze, Christianisme de 1 Indes, 1758

I inthome Reminiscences of Agra A Series of Travellers Accounts from Marco Polo downwards The Bombay Gazetteer the Madras and other District Manuals f 1551m

Hurter India I mpire and fassir in the Imperial Gazetteer Madras Catholic Directory each year from 1851 to 1907 Buchanan, Christian Researches in Asia 1811

Di Cunha Chrul Bassein 1876 Steward, History of Bengal, 1813 Calcutta Review, Vol V p 242 (Portuguese in North India) also April 1881 (the Inquisition)
Last and West December 1905 (Vindication of de Nobili) I dwardes, The Rise of Bombay, 1902
[A large bibliography will be found in D'Orsey Portuguese Discoveries, etc p 379 seg)

THE Punjab Mission, as a separate entity, was called into existence in 1880, when Bishop Paul Tosi was appointed Vicar Apostolic of the Punjab Previous to that year the Punjab was part of the Vica riate Apostolic of Hindustan and Tibet In 1886, however, Ecclesiastical Hierarchy was established in India. and the Puniab was con stituted a Diocese with headquarters at Lahore Before the annexation

of the Punjab by the British, scarcely any efforts seem to have been made in modern times to implant History records that Christianity in these parts during the reign of Akbar, a mission of Jesuits from Goa visited Akbar's Court at Lahore, and that they were favourably received, that his successor, Jehangir, allowed some Portuguese Jesuits to establish a mission and build a church at I ahore, and assigned stipends for the maintenance of the priests But this liberality Shah Jehan, a more strict Musal censed at his death man, withdrew the pensions and had the church pulled down, but some traces of it still remained when Lahore was visited in 1665 by the French traveller Thévénot From the death of Jehangir to the adven

THE CATHOLIC DIOCESE OF LAHORE

mious life of the natives, and their influence reaches deep into the social life of the communities among whom they dwell? (Indian Empire, p. 239)

(II) CHURCHES, ARCHÆOLOGY, LIC

Except for the reputed tomb of St. I homas at Mylapore a few early stone monuments and a few inscriptions on copper, ecclesiastical antiquities are winting previous to Portuguese times. The Portuguese churches, especially of the 16th and 17th centuries though not pretending to classical pe fection, possess a certain splendour of their own. When about the veri 1657 Goa began to be deserted in favour of Panjim the houses fell into decay, but the churches and public buildings still remain, surrounded for the most part by palm groves and jungle. The chief of these is the

Church of Pon Jesu, con taining the shine of St Francis Xavier, whose body is still preserved incorrupt Besides this, the Cathedral of St Catherine, and the Churches of St Francis of Assisi, St Cajetan and St Monica deserve special mention Second to Gor comes Bassein, 35 miles north of Bombay compris ing a large collection of ruined churches enclosed within a line of fortifica Other groups of ruins are found at Chaul on the coast south of Bombay The cathedral at Mylapore, containing the reputed grave of St Thomas, as well as the Great Mount and the Little Mount, traditional scenes of the sojourn and death of the apostle, are also of remarkable interest Else where, sprend over the districts of Portuguese missionary enterprise many old churches, but mostly

of secondary importance, are to be seen. Numerous stobe crosses of a peculiar type were also erected by the roadsides and the shore, and on the summits of hills, even in places where little trace of Christianity now remains. Among more modern buildings of note may be mentioned the Cathedrals of Allahabad and Colombo, the college churches at Mangalore and Trichinopoly, the parish churches of Karachi and of the Holy Name, Bombay, as among the best. The college buildings of Trichinopoly, Calcutta, Darjeeling and Bombay are also worthy of notice.

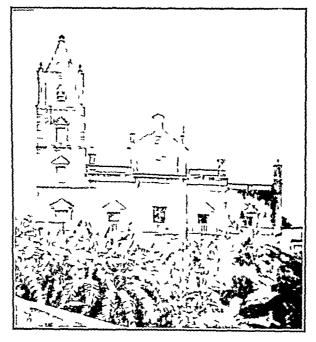
(12) LITERARY ENTERPRISE

On the whole, the Catholic clergy of India do not make such full use of the press for propaganda purposes

as is the cise with Protestants. They have no worldwide organizations like those of the Bible Society, the Religious Tract Society, the Society for the Propagation of Christian Knowledge, etc. nor do they publish news papers expressly appealing to the wider public of native Indian reiders of idopt any system of tract circula-This fact is accounted for first by the r limited pecuniary resources, and secondly by their arduous pre occupations in the work of teaching and of the Hence they prefer to concentrate them selves on a more domest child of literary work. They have a large number of presses in various parts of the country-Calcutta, Bombiy, Madras Frichinopoly, Mingalore Colombo etc. which are devoted partly to the printing of Cathola newspapers, partly to the production of school books catechisms and works of instruction and devotion for their flocks. The Catholic

community is served by a considerable number of papers eg Ih Catholic Herald of India (Calcutta), formerly called The Indo Furopean Correspondence, and founded in 1865, The I van incr (Bombas) for merly known as the Bombay Catholic I vammer, and $\Gamma h \varepsilon$ started in 1840, Catholic Watchman (Midris), in augurated in 1887, The Cevlor Catholic Messenger (Colombo) ThJaffna Guardian, etc, besides other publications in English and the local verneular- Ill these belong to the propaguida jurisdiction. The padro ido is represented in Gor by a number of papers, among which O Crente ranks as official in Bombay by the inglo Lusifano, in Myla pore by the Catholic Register, founded in 1890, etc These newspapers besides local and general Catholic news, devote themselves

in various degrees to controversal and expositive matter chiefly for the instruction of the faithful, but also for the benefit of outsiders. To these is to be added a fair unount of pamphlet hierature, some of it reprinted from the above named journals. For the use of the clergy, a monthly organ called the Promptuarium Canonico Inturgicum is published in Latin by the Carmelite Fathers of Ernakulam.



BINDEL CHURCH FOUNDED IN 1599

(13) LITTRATURE OF THE SUBJECT

From the Catholic point of view nothing in the way of a complete general history of the Church in India has yet been written, though the materials for such a work are abundant and might easily be collected. They consist chiefly of the records and histories of the differ-

Church of England in India

THE history of the Church of England in India is that of the English in India The adventurers of the early East India Companies were churchmen, and though they employed no minister of religion on board their ships until 1607, the Company's commissions for each previous voyage enjoined upon their Captain-General that morning and evening prayer should be said daily with each ship's company, and a copy of the great Bible with the Elizabethan Prayer book bound up with it, was in charge of the purser of every ship [The Church in Madras, Rev F Penny, LL M, 1905] Henry Levett, Chaplain to the 'Lord Pemb oke' is the first chaplain known to have been appointed for the Indian voyage He was paid a fee of fifty pounds, with fifteen pounds for his expenses From that date onwards for many years chaplains accompanied most of the expeditions It was not only for services at ser that these clergy men were entertained, for the Company's minutes expressly record, respecting William Leske, who sailed about 1614, with double the emoluments of Levett, that the Court was well satisfied as to his being able to contest and hold argument with the Jesuits who were 'busy at Surat' A letter to him from the celebrated Sir Thomas Roe is produced in facsimile in Mr William Foster's Embassy of Sir Thomas Roe Many of these early chaplains, particularly Edward Terry and Patrick Copeland, made efforts towards the evangelization of the heathen A Bengali boy, brought home by the latter chaplain, was christened on the 22nd of December 1616 at St Dionis Backchurch, Fenchurch St, in the presence of Pivy Councillors, the Corporat on of London, and the Court of the East India Company King James himself selected the baptismal name, which was 'Peter' A surname, 'Pope,' was also conferred upon him

In 1658 the Company resolved to maintain a Resident Chaplain in India and addressed the Universities with a view to securing a fit person for this isolated and responsible ministry The idea of the E I C was not only the spiritual welfare of their own servants, but the benefit of Indian natives also letter says that the Company has resolved to endeavour to advance the spreading of the Gospel in India and the settlement of an orthodo, godly minister, such an one as may instruct and teach the people that shall be committed to his charge in building them up in the knowledge of God and faith in Jesus Christ Two years later it was decided to enlarge the Indian Ecclesiastical Establishment from one individual to four, and in 1668 six chaplains were on the list. The factories to which they were appointed were Surat, Madras, Hooghly ('the Bay'), Bantam, Bombay and Saint Helena The evangelistic idea, so clearly ex-

pressed in the circular to the Universities, was perpetuated in these appointments The Company's Chaplains were to be "qualified for learning, piety, and aptness to teach" They each received a salary of fifty pounds a year, with a gratuity of the like amount if the local factory councils approved then All these chaplains at first, and probably well on into the next century, were expected to conduct the morning and evening worship of the Prayer-book daily in the factories where they resided In 1685, by Royal order, candidates for Indian Chaplainces were to obtain the approval of the Bishop of London before appointment In 1698, the new Company reaffirmed this order and requested also the Archbishop of Canterbury to put forth a prayer for use in its fac-This His Grace did in association with the Bishop of London, and the prayer continued in use during the subsequent century. In this prayer it is sought that "these Indian nations among whom we dwell, beholding our good works may be won over thereby to love our most holy religion" Since 1698, and since the union of the old and new Companies in 1702 to the present time, the Archbishop of Canterbury has been associated with the Bishop of London in the supervision of appointments to the Chaplaincies

At Surat in 1663, before the arrival of a chaplain, the President had prepared a chapel furnished with bibles in different languages, and had requested the Company to supply a painted and gilded altar piece for its adornment, representing Moses and Aaron with the Tables of the Law, and God's name written above them in triangles in several oriental languages chapel is also spoken of as in use at Hooghly in 1679 The Company endeavoured to enforce the ministrations and discipline of religion by repeated ordinances, imposing fines on its servants for unseemly behaviour, and neglect of public worship. In 1688 these regula tions were codified under ten heads and sent out to the factories, where they speedily became popularly known as 'the Company's Commandments' The scandalous disorder of certain of the Indian factories was severely rebuked by Sir John Goldsborough (Calcutta, 1693), the Rev Benjamin Adams (Calcutta, 1702), the Rev John Antony Sartorius (Madras, 1729) and by Dean Prideaux in 1694 in his Account of the English Settlements in the East Indies On the other hand, 2 remarkably favourable report on the conduct of daily divine worship, especially on Sundays and Holy days at Surat, is contained in a letter by Mr Streynsham Master, dated Bombay, 18th January 1672 which also testifies that at the smaller factories divine service was read twice every Sunday

of the British, the history of Christianity in the Punjab is a blank With the annexation in 1849 missionary enterprise became again possible, but owing to the dearth of priests and lack of material resources, little could be attempted besides ministering to the British troops But in 1889 the Punjab Mission was entrusted by Rome to the Belgian Province of the Franciscan Capuchin Order, whose duty it is to finance the Mission, to maintain educational and charitable institutions, and to provide missionaries in sufficient numbers to cope with the work From that year the condition of the Mission has been one of steady progress Whereas there were only three schools in 1889, there are now twenty schools, five of which are High Schools, and two Industrial Schools There are five orphanages and a home for abandoned children The Mission maintains five dispensaries, where free treatment and medicines are given to the natives of all castes and creeds French Franciscan Sisters have charge of the Government Female Lunatic Asylum at Lahore, and how highly their services are valued may be gathered from the following re mark which Sii Charles Rivaz, when Lieutenant Governor of the Punjab, wrote in the Visitois' Book on the occasion of his visit to the Asylum "The Female Asylum is generally a pleasing contrast to the Male Asylum, partly because there is sufficient accommodation, but mainly because it has the good fortune to be under the management of four Roman

Catholic Sisters, who live in the Asylum and give up their whole time to it. The moral influence which these ladies have evidently acquired over the patients by their cheerful demeanour, and kindly and patient treatment of them, is very remarkable, and the excellent work they are doing under what are necessarily very trying conditions cannot be overestimated."

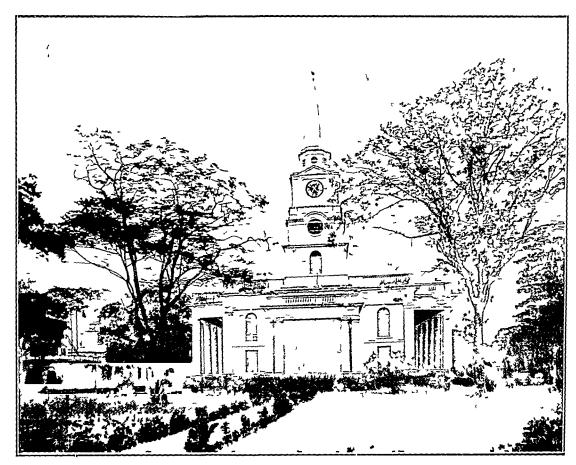
The present incumbent of the See of Lahore is the Right Rev Dr Fabian Anthony Eestermans, oc Born at Meerle (Belgium) in 1858, he studied the ancient classics-Greek, and Latin, and Literature at the College of Hoogstraeten, and Philosophy at the lesser Seminary of Mechlin He was admitted to the Capuchin Order in 1878, and ordained priest in 1883 After completing his ecclesiast cal studies, he was appointed Professor of Ancient Classics at the Capuchin College of Bruges in 1885, in which post he remained till 1889, when he volunteered for mission work in India Shortly after his arrival in the Punjab he was appointed Vicar of the Cathedial, and only resigned this charge on his elevation to the Episcopate in April 1905 He received episcopal consecration at Antwerp on the 29th June 1905, and took formal possession of the See of I ahore on the 10th December of the same

A new Catholic Cathedral is now in course of constituction at Lahore which bids fair to eclipse any eccle siastical building in India. The total cost is estimated at about four lakhs of rupees



matters of probate, intestacies and wardships) as the same was used in the Consistory Court of London, was conferred. By consequence it is held by the Government of India that the ecclesiastical law governing the Church of England in India is that of England in 1726, modified only by such later statutes as expressly, or by necessary implication, apply to India. Thus since Act 5 and 6 William IV, c. 54 (which, until 1907, rendered mairiage with a deceased wife's sister absolutely void for persons whose domicile is the United Kingdom) was not made applicable to India, it did not supersede, for persons domiciled in India, the English law existing

appointment of a Bishop in India and one Archdeacon for each of the three Presidencies, with jurisdiction as might be defined, also for an annual grant for education in India and for greater freedom for missionary enterprise. In 1792 Mr. Grant had advocated the cause of missions and education in his 'Observations on the state of Society among the Asiatic subjects of Great Britain,' which was printed for Parliament in 1813. Dr. Claudius Buchanan, a Bengal Chaplain who retired in 1808, was also a prominent advocate of the appointment of Bishops in India and of the cause of Missions there. (See his 'Memoir on the



ST JOHN'S CHURCH CALCUTTA

in 1726 It follows that for East Indians certain marriages within the prohibited degrees, though illegal and repudiated by the Church, until the passing of the new Act in 1907, were not in fact void, unless so de clared by an Ecclesiastical Court

By the time that the United East India Company's Charter expired in 1813, Pailiament was induced (mainly at the instance of the Mr Charles Grant abovementioned, then a Director of the H E I C and M P for the County of Inverness) to incorporate into the Act of that year (53 Geo III, c 155, authorizing the King to grant a new Charter) provisions for the

expediency of an Ecclesiastical Establishment for British India' and his papers about Christianity and Christian Missions in India) The cause of popular education, which the new charter encouraged, had been first urged upon the Indian Government by a letter addressed to the Governor-General in Council on the 20th of June 1788 by the four chaplains then at or near Calcutta—Thomas Blanshard John Owen, Robartes Carr, and David Brown Their proposal was that the State should set up schools all over India wherein, together with the English language, the rudiments of Christian faith and morality might be

Under the new Charter of 1698, which governed the united Company after 1702, not only was a chapla n required to be maintained in every gairison and superior factory in India, but each of these chaplains was requir ed to learn both Portuguese and the local vernacular, in order that he might propagate the Protestant religion among the Company's servants and slaves In 1696 a hundred copies of the Book of Common Prayer, in Portuguese, had been sent out to Madras 'to the honour of God and the glory of our Church,' and there is evidence that many of the chaplains entered con amore

into the evangelistic portion of their duties Under King William III the two venerable Societies, S P C K and S P G, were incorporated and among the promoters of each was the Revd Dr Evans (after wards Bishop of Bangor, and then of Meath) who had been the first Chaplan in Bengal To the former he subscribed annually five pounds with the object of providing 'parochial I braries throughout the planta One of the earliest promoters of the objects of the S P C K in India was the Rev Briercliffe, Chaplain in Bengal, who wrote home so strongly of the need in North India of schools similar to those already kept up by the King of Den mark's miss onaises in the South, that the Soc ety elected him, on September 2nd, 1714, one of its corres ponding members, and sent out to him, and also to the Chaplain of Fort St George, a small parochial library From that time onwards, for more than a century, the S P C K, with the help of the Company's chaplains in each place, continued to support and promote both education and evangelistic work in several stations in India As early as 1709 a separate Committee of the S P C K sat in London, to carry out the objects of the Society in a sort of friendly partnership with the Royal Danish Mission in Madras, Cuddalore, Trichin opoly and Tinjore, with the hope of extending its

enterprise northwards to Calcutta

In 1680 the first English Church in India, as distinct from the chapels or oratories set apart for the daily prayers in the factories, was erected in Fort St George, Madras, and consecrated on the 28th of October, by commission from the Bishop of London, in honour of the Virgin Mary In 1709, on the 5th of June, the Church of St Anne at Foot William, Calcutta, was similarly consecrated, and on Christmas Day, 1718, St Thom is' Church, Bombay, was solemnly dedicated to its sacred purpose, and presumably consecrated by commission from the B shop of London, who until the creation of the Calcutta Bishopric, remained Diocesan over all the English congregations in India These three churches were built by public subscription, supplemented by moderate grants and gifts from the Company Their ministers, church-wardens and sidesmen in each case assumed the powers of corporations, and held property in land and the public funds, and administered schools and other charities, as after various reorganizations they continue to do to this day St Anne's, Calcutta, was runed in the sack of 1756, and on the recovery of the Fort the Portuguese Church was confiscated to English use, until in 1760 a prrochial chapel, under the title of St John's, was opened in old Fort William. This served as the Parish Church of all Bengal until the present fine church of St John was, by commission from the Archbishop of Canterbury, consecrated on St John the Baptist's

Day, 1787

The fourth English Church in India was built under the S P C K Mission in Calcutta, largely at the private cost of the missionary, the Rev John Zachary Kiernander This, under the name of 'Beth Tephilla' (the present 'Old Church)' was opened with great public solemnity in 1770 Kiernander had arrived as S P C K Missionary in Cuddalore in 1740 The church with its school and other buildings, being in law the private property of Kiernander, were in 1778 attached for debt by the Sheriff Mr Charles Grant however (then Superintendent in Bengal of all the Company's trade there) paid down 10,000 rupees to release the property, and then assigned it to trustees whose successors still hold it The church and its parsonage and other property are now in

charge of the Church Missionary Society

As the Company's military and civil establishments increased in the three presidencies, so the three estab lishments of Chaplains increased, though not by any means at the same rate, until at the present day their numbers amount to 166, distributed as shown in the statistical table appended to this article Indian Chaplains are now appointed directly by the Crown, and serve at present for 23 years, when they are entitled to pensions of £365 a year. Their salaries rise, by increments, from 480 to 1,000 rupees a month Chaplain is Archdeacon, under the Acts of Pailiament and the Charters, of each diocese in which chaplains serve, and the rest are distributed among the military garrisons and the larger civil stations. From these as centres they serve, for the purpose of the adminis tration of the sacraments and preaching, a large number of 'out-stations' where smaller European communities reside. In nearly all of these latter there is either a church or some public room licensed or otherwise sanctioned by the Bishop for the use of divine worship, where, when the Visiting Chaplain is not at hand, morning or evening prayer is read every Sunday by a member of the local Church Committee large number of places the Local Governments allow grants of 100 or 150 rupees a month towards the salary of some resident clergyman who undertakes chaplain's duties These grants are doubled or trebled by the various diocesan 'Additional Clergy,' 'Railway Chaplain,' and 'Seamen's Miss on' funds 'Church of England Soldiers' Institutes' are being provided in all the larger military stations, and are active agencies of good work

Many educational institutions for Europeans and Eurasians, as well as for Natives, have arisen in India under Church patronage Among the former are the old Calcutta Free School and similar schools in Madras and Bombay, the European Female Orphan Asylum in Calcutta, Bishop Cotton's Schools in Simla and Bangalore, Bishop Corrie's School in Madras, the Lawrence Military Asylums at Sanawar, Ootaca mund and Mount Abu, and a similar Asylum at Murree

In 1726 'Mayors' Courts' were established by Charter in Calcutta, Madras and Bombay, and upon these, ecclesiastical jurisdiction (chiefly exercised in

Winchester In 1887, after the annexation, Upper Burma was added by Letters Patent to the diocese

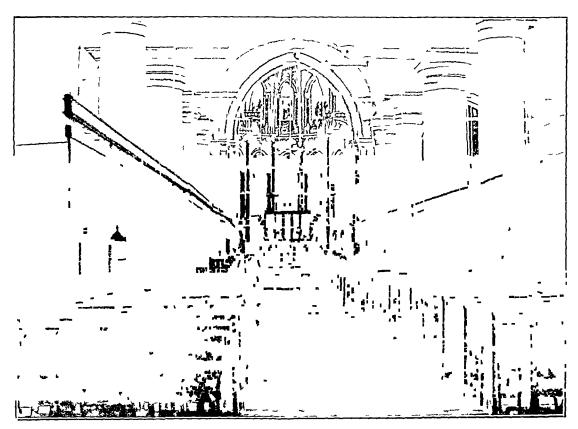
of Rangoon

In 1879 under 'The Jerusalem Act' (5 Vict, c 6) a Royal license appointed a Bishop in the Native States of Travancoie and Cochin In 1890 an Assistant Bishop to the See of Calcutta was consecrated for the district of Chota Nagpur In 1893 the Diocese of Lucknow was established In 1896 an Assistant B shop was by Royal license permitted to be consecrated for the benefit of the Bishopric of Madias, and thus a Commissarial diocese over the revenue districts of Tinnevelly and Madura has been constituted, after the model of Chota

Lucknow), consecrated in 1887 and 1891, and the Resurrection, Lahoie, consecrated in 1887 are also edifices of great area and dispute.

of great size and dignity

The first English Bishop in India (CALCUTTA) was Thomas Fanshaw Middleton, DD, Archdeacon of Huntingdon, a noted classical scholar. He aimed in Calcutta in November 1814 and died there on the 8th of July 1822, having travelled over a great part of his vast diocese, confirming, ordaining and encouraging missions. He founded many institutions, among them 'Bishop's College,' near Howrah, since transferred to Calcutta. He was succeeded by Reginald Heber, DD, Vicar of Hodnet and Prebendary of St. Asaph, who was



CATHEDRAL (INTERIOR) BOMBAY

Nagpur Lastly, in 1902 by the usual Letters Patent, the Diocese of Nagpur was founded. Thus the province of India and Cevlon now consets of nine dioceses (each with its Bishop, Archdeacon and Registrar) and two Commissarial Bishopics.

The Bishops of the province have met in Synod sever times, viz, in 1877, 1883, 1888, 1893, 1897, 1900 and 1904, and on each occas on promulgated Synodalia regulating general church policy on matters of moment

regulating general church policy on matters of moment The Cathedral Church of St. Paul, Calcutta, consecrated by Bishop Wilson in 1847, is a splendid and costly building, while those of St. George, Madras, consecrated in 1816, All Saints, Allahabad (Diocese of consectated in 1823. His espiscopal visitation touts are described in his published journals, while his hymns and other poems are celebrated throughout the whole English speaking world. He died in a swimming both at Trichinopoly on April 3rd 1826. The third Bishop was John Ihomas James, D.D. Student and Tutor of Christ Church, an accomplished art critic and painter. He reiched Calcutta in January 1828 five months later he was taken ill, and on the 22nd of August died on a voyage to China, undertaken in the hope of recovery. His successor was John Mathias Turner, D.D., who arrived in 1829 and died on the 7th July 1831. He did much for promoting European education and for

The memorial was not favourably received perhaps because it too obviously disclosed its author's leading purpose therein, clsewhere described by Mr Brown as being 'preparatory to the main business of giving Christian light in this land sitting in heathen darkness,' at any rate the letter remains as a monument of the first of all the schemes for native education on English lines, by the State in India

In pursuance of the Act, a Charter, or Royal Letters Patent, issued the next year, 1814 (54 Geo III, May 2) founding the Bishopric of Calcutta, with three Arch deaconries, in subordination to the Archbishop of Very ample visitorial and disciplinary Canterbury jurisdiction was conferred upon the prelates so appointed, who were all to be, and have ever since continued to be, corporations with perpetual succession,

capable of holding property of all descriptions

By an Act of twenty years later (3 & 4 Wm IV, c 85) the Bishopric was permitted to be divided by the separation therefrom of new dioceses corresponding to the presidencies of Madras and Bombay, and at the same time the Bishop of Calcutta was to be invested with Metropolitical jurisdiction over the Indian province, which included Ceylon, under the superintendence of the Primate Accordingly, by Charters dated 1835 and 1837, the Dioceses of Madias (with Ceylon) and Bombay were constituted, and the Bishop of Calcutta declared Metropolitan Bishop in India The existing Archdeacons continued under their respective new diocesans, with an additional Aich deacon for Colombo (Ceylon) The three original Bishoprics over the presidencies are termed 'Statutory' as deriving their administrative jurisdiction from statutes of the realm Of these, the Bishop of Calcutta in virtue of a Royal Wariant in 1814, is expressly invested with the title of 'Lord Bishop' All the other Bishops are addressed by the same 'style' in virtue of the courtesy of the Church in all ages The Acts of Parliament affecting the jurisdiction, status, leave and allowances of the three statutory Bishops with their respective Archdeacons are the following -

The East India Company Act, 1813 (53 Geo III, c

155, §§ 49-54)
The Ordination for Colonies Act, 1819 (59 Geo III, c 60 § 1) The Archbishops of Canterbury and York the Bishop of London or any Bishop by any of them authorized, may ordain deacons and priests for service in the foreign dominions of the Crown, and the fact must be stated on the letters of orders

Indian Bishops and Courts Act, 1823 (4 Geo IV, c 71, §§ 3-6) Pensions may be granted to Bishops and Archdeacons who have served ten years A residence in Calcutta to be provided for the Bishop there, and the expense of his visitation to be defrayed by the Com pany The Bishop may ordain for his Diocese only, the fact being stated on the letters of orders, saving the provisions of the E I Co Act, 1813, and of the King's letters patent issued either in virtue of that

Act or of that of the King's lawful prerogative
The Indian Salaries and Pensions Act, 1825 (6 Geo IV, c 85, §§ 5 & 15), providing payment in certain cases of half a year's salary to a Bishop's heirs Pensions may be granted to Bishops of Calcutta for

services of five or seven years

The Government of India Act, 1833 (3 & 4 Will IV, c 85, §§ 89 and 90, 92-94, 96-102, of this Act §§ 91 & 95 were repealed by 43 Vict, c 3, § 5, and 53 and 54 Vict, c 33 S L R) Bishoprics may be created for Madras and Bombay The Bishop of Calcutta to be Metropolitan Salaries and pensions of the Bishops of Madras and Bombay regulated, their visitation The salaries of expenses to be met by the Company the three Archdeacons limited to 3,000 sicca rupees a year each, provided that the whole expense incurred in respect of the said three Bishops and three Archdeacons shall not exceed 120,000 sicca rupees a

The Indian Bishops 1ct, 1842 (5 and 6 Vict, c 119, §§ 1-4) Furlough and furlough allowances to be provided for Indian Bishops, and remuneration for a Bishop acting in place of the Bishop of Calcutta

The Colonial Bishops Act, 1852 (15 and 16 Vict. c 52, §§ 1-5) Bishops of Calcutta, Madras and Bombay may ordain in England or Ireland by letters of request from the local diocesan

The Colonial Bishops Act, 1853 (16 and 17 Vict, c

49, § 1), concerning letters dimissory

The Indian Bishops Act, 1871 (34 and 35 Vict, c 62, § 1) concerning leave rules for the three Bishops The rules framed under this Act were issued under the Royal Warrants of 4th November 1844 and 11th

February 1901

The Colonial Clargy 1cl, 1874 (37 and 38 Vict, c 77, §§ 3-14) Indian Bishops may, by request of the diocesan, exercise episcopal functions not extending to jui isdiction in any other diocese No one ordained for service abroad to officiate in England without permission from the Archbishop of the province and the diocesan

The Indian Salaries and Allowances 1ct, 1880 (43 Vict, c 3, §§ 1-4) The salaries and allowances of Bishops and Archdeacons of Calcutta, Madras and Bombay may be regulated by the Secretary of State for India in Council, provided that the charges on the Indian revenues be not thereby increased

The whole of the territories of the East India Company in India up to 1837 are included in the three Statutory dioceses. All other territorial Bishopiics founded since then are over the Indian provinces of later acquisition Jurisdiction in each of these is derived from the Crown by Letters Patent, and the respective Bishops are Corporations sole, capable of holding property in perpetual succession These Bishops have no maintenance from the State, as such but each draws salary as a Senior Chaplain and 15 further sustained by the income derived from endow ments voluntarily subscribed at the founding of the See To the See of Lahore and Lucknow are attached, by commission, certain districts under the original jurisdictions of the Bishops of Calcutta and Bombay

In 1845, Ceylon, with its Archdeaconry, was made into a separate diocese. In 1877 the Bishop of Calcutta was relieved of the jurisdiction which he had come to exercise with the consent of Government over the Punjab and Burmah, by the creation of the Sees of Lahore and Rangoon, the former was founded as a memorial to Bishop Milman, the latter owes its existence largely to the liberality of the Diocese of

those of the CM S In 1577, Robert Cildwell, DD, Wis consecrated to issist Bishop Gell in the supert som of the S P G congressitions in Linne velly, and I dwild Susant, D D, lor 1 similar charge over those of the CMS For htty Vens the lormer lesided it Id by mends and my reason corner to the chieft me of Immedelly includes in numbers from 6,000 to 100,000 He was the author of many historical ethnographical ind linguistic works. He resigned in Jiminy 1801 and dad it Koduk in il in the following August Di Subent was the inthoi of books of divinity ind translations and I amil He died on the 13th of October 1880 The fifth B shop of Madris is Hemy Whitehead, D.D., late Superior of the Oxford Mission to Calcutt's and Principal of Bishop's College, Calcutt's He was consecrated in 1899

The third Bishopile constituted in India was that of Bondy Of this See the first Bishop was Thomas Cut, D.D., who was consect the more prompt carnest adherent of the compelical school tesigned, and died Rector of Bith in 1850 He wis site ceeded in the Dishoptic by John Huding, D.D., const. crited in 1851. He had been Secret us of the Church n_{ewas} Pastoral Md Society and was in evangelical of a Bishop was Henry Mexinder Douglas, D.D. De in of Constant M. Was consecrated in 1868 and died in In 1851 he Capetown He was consecrated in 1868 and died in London on the 13th of December 1875 London on the 13th of December 1875 Inc fourth was Louis George Wylne, DD, Iutor of Keble College, Was succeeded by Limes Magazibin DD, Vernal was succeeded by James Macrithur, D.D., Victor of Acton, consecrated in 1898 He resigned in 1903 The Sixth Bishop of Bombay is Walter Ruthven Pym, DD, Itte Bishop of Maintins, translated in 1903

Of the Diocese of Colombo there have been five bishops, James Chapman, D.D., consect ited in 1845, resigned, 1861, Ph. Cilvely Chughton, Bishop of St. Thursh Williams Helena, translated, 1867, 16816 and 1870, High Willough by Jerman, consecrated 1871, 16 signed, 1875. He then became Bishop of Brechin and Primus of Scotland The fourth Bishop was Reginald Stephen Copleston, D.D., the tuthor of Buddhism Primitive and Present He was translated to the Metropolitical Section 1902, where the following year he consect thed his brother, Einest

Thomas Valpy French, D.D., Was the first Bishop of I nomas vaipy Piench, D.D., was the mat Dishop of Principal of the now great at John's College at Agriculture of the College at Agriculture of the Delay of the College at Agriculture of reincipal of the now great of John's Conege at Agriculture the C M S In 1861 he had founded the Delajit Mission From 1865 to 1869 he hid been Victi of Allssion from 1805 to 1809 in find been victor of Cheltenham In 1870, he founded St John's Divinity accompand he Richard and doubted the Companded of resigned his Bishopric and devoted the tempindes of his life to simple missionary libours, engaged in which he died at Muscat in 1891 The second Bishop of Lahore was Henry Junes Mathew, D.D., Archileacon of Lahore He was consecrated in 1888 and died on the 2nd of December 1898 His successor is George Alfred Lefroy, D.D., life Head of the Cambridge University Mission at Delli He was consecuted in his own

The first Bishop of RANGOON Was Jon than Holt Titcomb, D.D. He had been Secretary of the Christi in Vernicular Education Society of India He was consciunt

Crited in 1877, and being injured by an accident, the author of books on the state of the state of books on the state of the state of books on the state of the s Bulm 1 and on Buddhism The second wis I ha Miller Structure DD and MD, 1 Mission Wy of the S P G Strictan D D and M D , 1 Mission my of the 5 r of terms M. S. Karl hr D D and M D , 1 Mission my of the 5 r of terms M. S. Karl hr D a hour is conservated the Athm Mesic Knight D D who was consecrated the nextren

Of the Bishopi can I km NCOkl MD Cocmy the that members was John Will riddle Speechly, D.D. Mission my of the CMS who resisted in 1880 after a manner of the control of the c Mission my of the Company who resisted in 1880 and a fen Vens' episcop ite. He was succeeded the following ten vens episcopue ne was successed inc nonowing by I dwind void flods is DD don't Mission ny transfer in the management of the contraction of the is Charles Henry Gall, D.D. Lite Secretary of the C.M.S. to the United Provinces

The first of the Commiss in il Bishopius to be endowed Wis that of (1107) A VOICK under the Secon Chenter The first Bishop was Tibez Comehns Whitley & Mis The mst Bishop Was I Dev Cornellus WhiteV & Mission uV of the S.P. G. in the district. He was conserved in 1800 and died October 18th 1001 He was the nuthor of works on the Mind ni med other linkinges In 1905 1 0ss Westcott MA of the S.P. G. Mission at (Wnport Wis consecrated second Bishop of Chot) Numpers was consecrated second disnop of a support the is a son of the late Bishop of Dutham and Dutham an

In 180) Mixed Chilord, D.D. Scrietary of the (M S it Cilenter United In the Secretary of the Bishop of the Bishop of Cilenter Of Cilent the Bishop of Cilenter over a portion of the United

The second Commissional Bishopic is within the Jurisdiction of Midriss namely that of Tinnivity AND MADURA The first Bishop was Samuel Morley D. D. Domestic Chipfing to the B shop of Mide is the Wis Consect the primate the provisions of the Act of 6 West consecution under the provisions of the zact of or the provisions of the zact of the provisions of the zact of the provisions of the zact of t testand in 1903, becoming Archdedeon of the Hilblish 16 Show in 1905 occoming Avenue acon or the February in 183 pt In 1905 his Sheetssot Arthur Acheson Arthur Acheson

Williams D.D., Archde icon of Midi is, was consectated In 1003, I yie Chilletton, D.D. I.R.G.S. Head of the Dublin University's Mission to Chot; Nulspin Wi Consect sted first Bishop of NACPUR in the Central Discovery of the Central Consecution of the Central Ploymets He is the without of The Story of Lifty

All the Bishops of the province me bound by outh of allegrance to the Metropolit in and the Primate of all England, the Commissing Bishops taking outh, in additional to the commissing beautiful and the commission of the commiss Lings are commissary disnops coming oran, in man tion, to then own dioces ms. All pixes and decrops, and the Michigan would whether maint uned by the State of the Mission by an account of the Mission by the State of the Mission by an account of the Mission by the State of the Mission by the Mission by the State of the Mission by the State of the Mission by the Mission other societies, or employed in education or otherwise, official in virtue of license from, iffer of the of comments of the order of the or obedience to, then respective dioces ms Cach swell illegrinee to the Crown, as do the bishops $I_{hey-ilso}$

The greater number of the missions of the Church of England in India in Supported by the Society for the Prop is tion of the Gospel, and the Chinch Missionary Society Both of these Societies inherit the fruit of & pioneci libouis of the Society for Promoting Chasti

It his the idy been pointed outhow the Co chiplans sought the help of the S.P.C. K. F. ment then own necessarily narrowh (V) ingelistic (fforts The (Xample of the Will of the Royal Danish Mission mes in the Sure a which represents the representation of the Sure a which represents the sure of the representation of the representation of the representation of the sure of the representation of the sure of the sure of the representation of the sure of the su

next year Government gazetted him to a chaplaney, in mistake for another cleasure and he remained on the establishment for nearly a year. The Calcutta Mission from 1787 for 20 years save during the brief manistry of Mr. Clarke, was superintended by David Brown, Presidency Chaplain and a trustee of the property.

In 1807, Daniel Corrae while Chaplain at those stations commenced evangel-stic work at Chan it and Benares. The same vera a Corresponding Committee of the Church Missionary Society was formed in Calcutta by the Keyd David Brown, and to this committee atterwards belonged Chaplains Claudius Buchan in Henry Martya and Daniel Cottie. The first mission ares of the C.M.S. in Bengal arrived in 1816. In Bombay, the Society commences worl in 1804, in Made is in 1814.

In 1858, the Old Massion Church was taken over by tooyermient and Thomas Trubady Thomason, who in 1820 became the first C. M. S. Secretary for North India, was appointed Chaplan of a

From 1805 to 1810 the heroic Chiplain Henry Martyr a School Wringler and the first Smith's Prizemal who had been Chirles 8 means curate at Cambridge trenuously exerted himself to exingelize the Hindoos a d Mahomed has at Scrimpore, Dinapore and Campore He translated the New Testament into Person and Hindoostum. In 1815 Henry Tisher, Chiplain of Meerut began the mission there.

In 1816, I mes Hourn, author of The History of Christianity is In his, London, 18,6, Chaplain of Palam cotta in Empeddly organized many vernicular and English schools in connex on with the missions of the district and in 1818 and 1816 he founded at Palameotta and it Nazureth seminaries for educating schoolmasters and candidates for the preschool

In 1810 Bishop Middleton founded Bishop's College it Cilcutta, to be in agency of the Society for Propagating the Gospel in Loregn Parts, and in 1822-23 Bishop Heber established the Calcutta Dioces in Committee of that Society

On Whitsund is 1825 the Governor of Bomb is, with almost all the great officers of the presidency, united with Bishop Heber in founding a Committee of the S. P. G for the Archdenconry of Bombay, and this continues to be the governing body, under the Bishop of the S. P. G. Missions within that diocese

In 1826, the S P C K handed over its Indian Missions with most of their property to the S P G

From that date onwards by far the larger part of the Mission work of the English Church in India has been carted on it the expense of, and by the committees of, these two great Societies, S. P. G. and C. M. S., under the supervision of the local bishops. Affiliated to the former me the small missions known as 'The Cambridge University's Mission to Delhi begun in 1877. The Dublin University's Mission to Chota Nagpur' begun in 1891, 'The Community of St. Stephen' or 'The S. P. G. Zenana and Medical Missionary Society' constituted at Delhi in 1887, the Brotherhood at Cawinpore begun in 1889 and the agencies in many dioceses of the 'Committee of Woman's Work'

Associated with the C. M. S. is the very large organization of the 'Church of England Zenana Missionals

Secrety, also that of the smaller - Zenana Bible and Medical Mission

In 1872 Bishop M Im in of Calcutta invited Father Ben on of the Cowley Brotherhood to send some of the members of that Society into his diocese. The following year accordingly the saintly I other O'Neill came out About the same time Bishop Douglas of Bombay profected a sandar welcome and others came out and began the Cowley I others. Mission at Bombay and Poon (

In 1880, at the nyitation of Di-Johnson Bishop of Calcutta the Oxford Mission to Calcutta or Brother hood of the Epiphany began its special work in that city

In 1888, the Mission to the Jews was established in Bombay

The Clewer Sisters, the Wantage Sisters the 'Sisters of the Church and the All Saints' Sister-hood have houses in India under the patronage of the Bishops

In several parts there are. Missions to Seamen established, that it Calcutta was begun in 1852

In communion with the English Church in India is the small Scottish I piscopal Mission at Chanda Although Government as such cannot promote Indian missions these have at all times enjoyed the support of many of its leading military and eight officers. Thus, in 1758 Ford Chive shelleved to have invited the S.P. C. K. Mission to Calcutta at any rate he give its first missionary marked favour and welcome. In 1705 Lord Wellesley sent Dr. Claudius Buch man to set the Syram Church in Malabar and his published Christian, Researches giving an account of his visit, led to the establishment of what we sat the first meant as a mission of help to the Syram Church there.

In 1823 the Church Mission at Goi ikhpur was begun, at the instance and at the expense of Mi. Robert Merttins Baid, then Judge and afterwards Commissioner of the district, he and his sister both actively participating in the work.

In 1825, the Governor of Bombay, as has been already stated and his leading officials helped Bishop Heber to introduce the S. P. G. into the presidency

In 1838, some of the Company's malitary and civil officers urged the C M S to take up work among the Telegus of South India, and in 1841 this was accordingly begun, and the mission under the C M S and S P G in all the Telegu districts is meeting with the most striking success

In 1842, Donald Friell McLeod, a civilian, afterwards CB and KCSI, and I nuterant Governor of the Punjab, procured the inception of the mission to the Gonds In 1854 he brought the CMS to Kangra and in 1856 to Multin

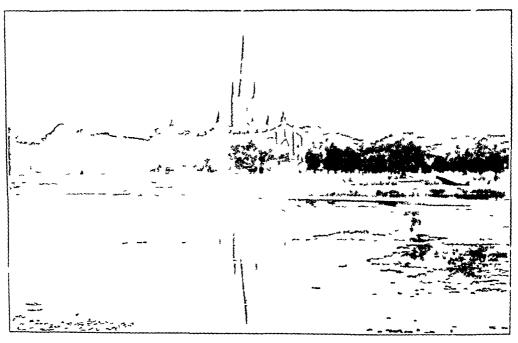
In 1850, a Captain Martin gave 10,000 supers to start a Church Mission at Lahore. In 1851, Mr. Mosley Smith, District Judge at Jabalpui, began to invite Hindoos to his house to hear the Bible read and explained, and thus with the help of the local Chaplain the Mission was begun there.

In 1854 Captain Taylor gave his bungalow at Ellore to secure a resident Missionary there

In 1859, Sir Arthu Thomas Cotton and Captain Haig started, among the cooles who were making the amout Zegenbalg) in England, further queckened the Society ready interest in Ird 1. It was long however, before any Englishman offered himself to go out to Ird 1. is 1 miss onary to the heather. In default of Englishman, the S.P.C. K. was forced to employ D in shand German Lutherans to superantend to Ind in Massions. In 1728 Benjamin Schultze. Head of the Danish Mission at Franquebar was taken over by the Society (with the consent of the King of Dermail and under the protection of the E.I.Co.) is its first Mission. He was not well received, however, by the English in Madras who wrote home that they would prefer to support an English Missionary in English orders. The Society, however, could

S. P. G., and partly of the Diocesan Committee of the S. P. C. K.

Intil the foundation of that Committee under the most Archdeacon of Madris in 1815, the Vepers Mos or remained without episcopal control, though under the pationage of the Archdeshop of Canterbury, and the Mission irons until 1822 were in Lutheran orders. The most noted of the ewere Christian Wilhelm Gericke 1767 to 180. His parsonal influence with Government were markable. Their reported to have bept red 1300 persons in Langeville in 1802. He bequeathed 15000 persons in Langeville in 1802. He bequeathed 5000 persons to the Mission. Still better known than Gericke is Christian Fradrich Schwartz, popularly known is Lather Swartz. He had been taken over from the Danish Mission, and from 1768 to 1778 served as



ST PAUL'S CATHEDRAL, CAICUTTA

not find an Erglishman and sent out a German, John Antony Surtorius, to assist Schultze. He came out, aided by the active patronage of Queen Curoline and authenticated by a long Latin letter of commendation from Aichbishop Wake. One of Sartorius's early letters to the Society contains a lamentable picture of the dissolute lives of both Erglish and Natives in Madras, much more abominable than can be imagined in Europe. Up to 1735, more than 400 persons had been baptized within the Vepery Mission. After the recovers of Madras from the French in 1749, Admiral Boscawen, C in C of our sea and land forces in the East Indies made over to the Mission then presided over by John Philip Fabricius, in compensation for its losses in the late war, a confiscated Roman Church with a garden and some small houses in Vepery. This property is now in the hands partly of Government and partly of the

Chaplain to the English troops at Trichinopoly He then removed to Tanjore. At both stations he built churches. He initiated Government schools and began the mission in Time welly. He became a sort of Prime Vinister to the Rajah of Tanjore and was made guardian of his heir, Serfoji. He died at Tanjore February 13th 1798, having made, it was said, 6 000 converts. Both at Tanjore and at Madras, Government erected moduments to his memory.

The first Englishman to undertake mission work under the S P C K in India, was Abraham Thomas Clarke, who had served a cure in Lincolnshire. He arrived in Calcutta on the oth of November 1780, to carry on the Mission founded by Kienander of which the property was then, as it is still administered by a Board of Trustees. His ministry was but short for on the 24th of November of the

ECCLESIASTICAL PROVINCE OF INDIA AND CEYLON

STATISTICAL LABLE

Diocese	Purishes and Mission districts	Churches consecrated or licensed *	Total population of the diocese (approximate)	Church member ship (approxi mate)	Chaplains on II M Establish ments	Other English Clergy	Native born Clergy
Calcutta	1 119	87	9,000 000	74 000t	22	67	3 ²
Chota Nagpur	26	18	5 000,000	18 000		11	15
Madras	183	د9	44 000 000	83 000‡	3,	39	79
Tinne elly and Madura	107	155	4 000 000	91 000	1	14	85
Bombay	77	55	25 000 000	40 000\$	25	40	14
Colombo	196	141	3,000,000	30,000	}	31	33
Lahore	37	83	34 000 000	47,000	J 33	66	17
Rangoon	26	31	10,000 0 0	23,000	12	22	15
Travancore and Cochin	41	52	3,000 000	48 oco		15	16
Lucknow	66	85	47 000,000	69 000	26∥	57	15
Nagpur	23	41	33 000 000	9 000	الد ا	13	4
Total	901	843	298,000 000	5,2,000	166	373	360

^{*} Not including small Mission Chapels and Prayer Houses
† Of which 20,000 are Europeans and Eurasians
‡ Do 29,000 do do
\$ Do 24,000 do do
\$ The Chapels are the Parkers folks and the Parkers folks are the parkers folks ar

Note — The Chaptuns of the dioceses of Calcutta, Lahore, Rangoon, Lucl now and Nagpur constitute the 'Bengal Ecclesiastical Establishment Those of the dioceses of Madras and Bombay are re pectively the (English) Leclesiastical Establishments of the two Presidencies

This number in each case includes the Bishop of the Diocese who for salary allowances and leave counts as a senior Chaplain

on the Upper Godaven, the existing mission at Dumina

gudem

In 1862, Sir Robeit Montgomeiy, Lieutenant Governor of the Punjab, and a number of his leading officials gave 14,000 rupees to start the Chuich Mission in Kashmii In 1865, Major Heibeit Benjamin Edwardes ind his officers collected 30,000 rupees to establish the like work in Peshawar The same year missions at Bannu and at Dera Ismail Khan were begun at the invitation of Colonel Reynall George Taylor, Commissioner of Umballa In 1880, two British military officers began the mission at Karachi

In 1892, James Munro, CB, a retired civilium who had been Commissioner of Police in London, started and himself superintended the Ranaghat

Medical Mission

These examples might be greatly multiplied

Of the Anglican Missions in India most remarkable for numbers and for the development of self support may be mentioned those in the Tinnevelly District under the charge of the S P G and the C M S Those of the former Society have their centre at Nazaieth Thie fifths of the district is served by the C M S and is organized into fifteen 'circles with Menginanapuram as their common mother town. There are about 90,000 Christians attached to the missions. The Menginanapuram 'circle' where the celebrated Missionary, John Thomas, who died in 1870, had his head quarters, is entirely self-supporting and with the assistance of other circles is maintaining a mission at Yellandu in the Nizam's dominions

The Ahmednagar Missions in the diocese of Bombay under the S P G is another progres sive mission as regards numbers. Here, in 1878, the Revd J Taylor baptized about 2,000

souls

The Telegu Missions of the two societies are also examples of remarkable expansion. The S. P. G. superintending about 12,000 baptized pest ons. and the C. M. S. about 20,000. There is believed to be a steady movement towards Christianity amongst the Panchama people of the Felegu districts.

The Chota Nagpur Mission is another instance of remarkable development, numbering about 18,000 native members

The two great Societies, with their associated Mission my enterprizes, fraternities and sisterhoods, maintain respectively in India the following staffs of ligents —

	English Clergy	Native Clergy	l nglisli Laymen	Lugligh Women *
SPG,	90	126	4	5‡
C M S	160	154	35	327

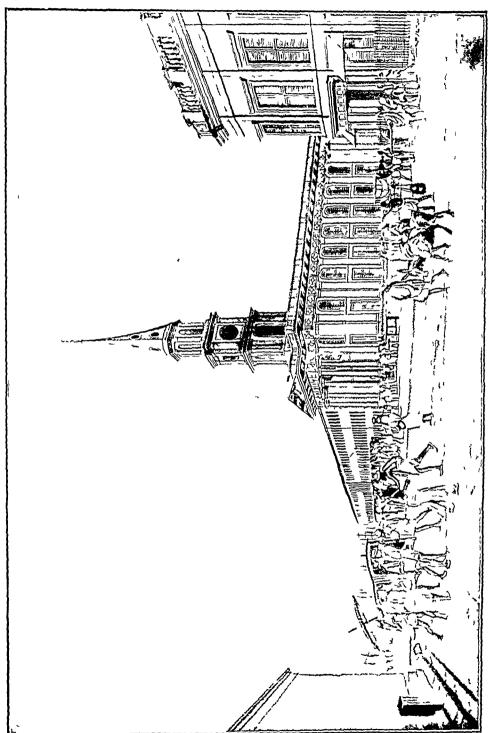
* Not reckoning wives of missionaries

These with the assistance of many thousands of native schoolmasters, catechists, and readers manage the exangelistic and the equally important pastoral work of the missions, and also a very large number of colleges and schools of every grade, hospitals and orphanages

The expenditure on all missionary institutions of a pastoral character, such as schools, the native pastorate and the catechists, church building and maintenance, is largely supplied by pative contributions. The rural parishes are organized under committees of the inhab itants (panchayats) who usually administer not only the local church funds but moral discipline also, under the control of larger bodies representing districts presided over by the English Missionary and authorized by the Bishop, to whom they report, for the severer censures of the church, cases of serious scandal Excommunication is inflicted in the worst cases and is strictly observed by the Christian communities It is a rule in all English Church missions in India not to admit more catechumens than can be watched and trained during the often pro tracted probation for baptism nor to baptize more than can be afterwards dealt with Continuous pastoral supervision of the rural Christian communities is the very essence of the English missionary system Thus, even after baptism, a probation, sometimes of years, is required before a convert is admitted by confirmation and communion to the franchise of his parish and a share in the administration of its discipline

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FOR STATISTICS OF THE FCCLESIASTICAL PROVINCE OF INDIA AND CEYLON—



VIEW OF ST ANDREW & CHURCH FROM MISSION ROW 1826

Scottish Church in India.

The Scottish Church in India is now represented mainly by the Church of Scotland, and the United Free Church of Scotland Besides these two large churches there are missions of at least two Scottish minor churches, the Scotch Epscopal Church at Chanda and the Original Secession Church at Seoni The labours of Scotsmen are not confined to these churches. Scotsmen find their way into most of the great missionary organizations such as the LMS, the Baptist Missionary Society and even the CMS. But while they remain thorough Scotsmen to the end of their days, they do not make the Societies to which they belong Scottish Beyond noting the fact that they exist, this article cannot take cognizance of them. We shall confine our selves, therefore, to the operations of the Church of Scotland, and the United Free Church of Scotland in India.

CHURCH OF SCOTLAND

The work of the Church of Scotland in India fal's into two sections—that done by chaplains, and that done by missionaries

CHAPLAINCIES

The Church of Scotland, as the State Church of Scotland, claims to be entitled to share the privileges of the Church of England in India There is technically no State Church in India And yet the Church of England is for all practical purposes the State Church From an early date the Church of Scotland began to realize its ecclesiastical responsibility for Scotsmen in India belonging to the official and the mercantile classes The Directors of the East India Company appointed a Scottish chaplain to Calcutta in 1813, and soon there after chaplains were sent to Madras and Bombay ecclesiastical establishment for the Church of Scotland was set up on the same basis as that of the Church of England It was naturally a much smaller establishment as the Scottish nation bears to the English nation the ratio of 1 8 or 1 o

The original number of three chapla is was doubled in course of time—but the establishment remained at the figure six till 1859—In that year seven chaplains were added, and were distributed thus—three to Bengal, two to Madras, two to Bombay—Thus there were thirteen chaplains on the civil establishment—In addition there were six military chaplains attached to Scotch regiments. In time—these six military chaplains were withdrawn by Government, and their work was thrown upon the civil chaplains—This imposed on the latter almost

impossible duties. They were stationed it Cilcutta, Madras, Bombay, Allahabad Meerut, Umballa, Bangalore, Secunderabad, Poona, Kurrachee, and could not also serve regiments unless these happened to be at the civil stat on of which they were chaplains Consequently some means had to be devised to overtake this duty Additional Clergy Soc eties were formed to provide ministers who while not on the regular Government establishment, might discharge the duties of chaplairs Private contributions and Government grants enabled the Church of Scotland through its Colonial Committee to undertake work at other centres viz, Meerut, Rawal pindi, Mhow, and Quetta In addition to the regular and Colonial Chaplains on the establishment the Senior Chaplain appoints as need arises ministers of Presby terran and other Protestant churches as Acting Chaplains American Presbyterians, Weslevans and Baptists have been appointed in this way. The Church of Scotland has thus been able to discharge its duty not only to the civil stations where it regularly works, but also to the Scottish regiments wherever stationed

The chaplain has to discharge all the functions of a minister in Scotland, preaching, pastoral visitation, and other ministerial duties, but in addition has to main tain relations with Government and to conduct a large amount of official correspondence. The military chaplain (though technically there is no such office) has to adapt himself to the life of the regiment and to military discipline.

In such a thoroughly Scottish centre as Calcutta, the Semor Chaplum of Bengal ministers to a well or ganized civil congregation and discharges all the official duties as head of the establishment. His is no small diocese. The whole of North India from Calcutta to Quetta is under his official control. He has to make arrangements for chaplains, military chaplains, and acting chaplains. All correspondence with Government passes through his hands. The movements of Scottish regiments have to be watched, and chaplains appointed. The Sen or Chaplain is practically the Head of a Department.

In Bombay and Madias there are similar Semor Chapla as Theoretically the Church of Scotland stands on an equality with the Church of Fingland in the eves of Government. But in practice she needs sometimes to assert her rights. In the time of Bishop Welldon a controversy arose as to the use of Government churches after much acrimonious correspondence it was decided that churches that were consecrated by Bishops were thereby alienated to the Church of England, and although built by public money, were not available for other denominations except by an act of grace on the part of a

chaplain and his bishop. It was thus declared that garrison churches though built out of public funds were not available for the use of Scottish regiments except by grace of the Anglican chaplain and his bishop. This position was felt to be intolerable by the Church of Scotland, which took action in its General Assembly, and by means of representations to the (Home) Government procured the right to have Presbyterian churches built in garrisons out of public funds. In this way the grievance has been removed though the sting of the inequality has not yet been forgotten.

The Semor Chaplam suffers by contrast with an Ang lican Bishop, though in the Bengal Establishment his duties are almost episcopal. It has been felt that there should be one Presby terran official over the whole work of the Church of Scotland in India, to supervise that work, to co ordinate its needs, and to represent its case to the Government. Such an official seems necessary, as the present Semor Chaplains represent only their own establishments. A general Superinter dent for the whole of the church's work in It dia would probably meet the case. For the title Superintendent there is the venerable precedent of John Knox, but there is no doubt that the title has little charm for modern Presby terrais. The title of General Secretary has also been suggested and may in due course be accepted.

and may in due course be accepted

The Ecclesiastical organization of the Church of Scotland in India, Burma and Cevlon is divided into six bodies resembling Presby terms called Presby termal Bodies, mz, Calcutta (for Bengal, Assam, and Burma), Madras (for Arkonam Baugalore, Madras, and Secun derabad), Bombay (for Bombay, Karachi, Poona, Quetta), Northern India (for Mlahabad, Cawnpore, Chamba, Daska, Dalhousie, Gujrat, Jalalpur, Jammu, Mecrut, Murree, Rawalpindi, Sialkot Umballa, and Wazirabad), Eastern Himalayas (for Darjeeling, Kurseong, Kalimpong, In dependent Sikkim and the Dooars) The Piesbytery of Ceylon supervises work at Colombo, Galle and Kandy

The Presby terral Bodies consist of all Chaplains and Acting Chaplains that are ministers of the Church of Scotland, and all ordained missionaries and ministers of that church, two senior ordained native missionaries, and one representative elder from each native Kirk Session whose pastor is a member of the Court, two elders from European Kirk Sessions in the Presidency towns and one from European Kirk Sessions in the Molussil

Each Presbyterial Body exercises functions similar to those of a Presbytery at home with power to license and ordain Europeans, East Indians, and Indians for work in India under courses of study sanctioned by the General Assembly

St Andrew's Church, Calcutta, was the first church building of the Church of Scotland erected in India It is the property of Government, but is assigned to the Church of Scotland—It is a handsome structure forming a feature in Dalhousie Square, which is reputed to be the finest square in India—Architecturally it is inferior to the church at Madras, which was built on the plan of an Italian church, and of which the following description has been given—"No wood is used in the building except for doors and windows, and there is no edifice extant where a dome of masonry of the same dimensions is supported on a colonnade of the same height, the

entablature of which is a straight arch without beam or lintel. The church is circular, $81\frac{1}{2}$ feet in diameter with an eastern and western extremity. The eastern end is occupied by the choir and organ, the western forms an entrance as well as side rooms for vestry and office."

Among other churches deserving special notice are the Macfarlane Memorial Church at Kal mpong (a large edifice holding 600 people and forming a landmark in the district that is visible for many miles), and St Columba's Church at Darjeching just above the Railway station, meeting the eye of every new arrival in that hill station

The Church of Scotland congregations throughout India minister not only to Scottish immigrants, but to those members of the domiciled community that are attached to Presbyterianism. In this respect the gratitude of all sections of Presbyterians is due to the Church of Scotland for ministering to Scotsmen and other Presbyterians in civil populations that are preponderatingly Anglican.

Before we pass to the Missions of the Church of Scot land, a brief reference must be made to the churches of Long before the Church of Scotland began Ceylon work in Ceylon, the Reformed Church of Holland, which is almost Presbyterian, in nistered to European settlers In 1642 there was a congregation at Galle, then a much more important place than now The Church had three cucuits, Colombo, Gaile, Jaffna-under one consistory whose jurisdiction while similar to that of a Presbytery also included the functions of a Scottish Kirk Session in matters of discipline. When Ceylon was ceded by the Dutch to the Birtish in 1796, the Dutch church ceased to have much interest in the colony, and 15 out of 16 Dutch ministers left the island

It was not till 1847 that the Church of Scotland appointed a chaplain to Galle in the person of the Rev J K Clarke who was appointed Colonial Chaplain of Galle The Colombo Church was founded in 1840 by Scotch officials, merchants, and others The Ceylon Government paid the salary of a chaplain. The Kandy Church was founded in 1855. The Ceylon churches minister not only to Scotlish Presbytelians, but to descendants of the Dutch population.

In 1881 something like disestablishment occurred in Ceylon, and the Government give notice that when the chaplaincy was vacated they would discontinue the salary of chaplain. The present ministra is supported partly by the income from a local endowment and partly by a grant from the Colonial Committee of the Church of Scotland.

The ideal of the Church of Scotland is to follow Scotsmen in India with the ministrations of their church While it has been worderfully successful in providing churches at discrete in various certification overtake the scattered Scotsmer that are to be found in every part of the Indian empire, sometimes in groups, sometimes as solitary individuals. There is haidly a church at work in India that does not include in its membership Scotsmen who were born Presbyterians, but whom the changes of life in India have carried beyond the sphere of influence of the Scottish Church. In recent years the establishment of a congregation of the Church of Scotland at Simla has provided an ecclesias tical home for Scotsmen in the summer capital of India



by the people themselves where on week days school is held and on Sundays the gospel is preached. Although under an undenominational Committee, the St Andrew's Colonial Homes at Kalimpong for the boys and girls of the domiciled European community in India are closely associated with the Church of Scotland Mission The Superintendent of the Homes is the Rev Dr J A Graham, the head of the Mission at Kalimpong, and in many other ways the influence of the Mission on the homes is felt. The workers from Europe in both Mission and Homes now number over 30 Down in the fever stricken Dooars (not far from Kalimpong as the crow fles) a Scotsman ministers to planters, and mission work is carried on among coolies on tea gardens influence of Kalimpong is felt fai and near as a centre not only of religious and educational enlightenment, but of industrial progress. New industries are being taught, the resources of the locality are being utilised One scheme leads to another, and all are successful To such courageous initiative both Government aid and voluntary local donations are freely accorded Perhaps rowhere in India do mission enterprise and Government and supplement each other more naturally The medical grant for the district is not expended in Government dispensaries but is handed over to the Mission which undertakes all cases in the district Kalimpong is an almost ideal centre for mission work At an elevation of over 4,000 feet it is yet not too cold for a large population In summer it is warm, in winter not too cold for comfort The soil is fertile and let out in crofts by Government (the owner) Indigenous methods of cultivation abound, and a happy peasantry lead contented lives

The history of the Mission is remarkable. It began as an outstation of Darjeeling in 1875 and was worked by a native catechist. In 1880 a European missionary was appointed and did the pioneer work of the Mission so wisely that although the Mission has far outgrown the original plans, it has done so by evolution and not by revolution. Boundaries have been extended, new departments have been opened, but the piety and commonsense of the first missionary have not been set aside Kalimpong may be described as one of the most success ful missions in India both in respect of its achievements

and its promise

DARJEELING

Mission work was begun at Darjeeling in 1870 by the Rev W Macfarlane, appointed to the mission at Gaya in 1865. When that mission was abandoned in 1870, Mr Macfarlane chose the Darjeeling district as his future sphere. At Gaya he became interested in a group of hill lads who had been sent there for education Following them up to their native hills, the Church of Scotland, at the invitation of European settlers in the Darjeeling district, began work. At first progress was slow but gradually outstations were formed in little villages on the hills, and now Darjeeling and Kalimpong and the village churches throughout the district have a Christian community of over 5,000. About 1880 Mr Macfarlane took up work at Kalimpong, and in 1887 he died there having begun to reap the results of his poneering efforts.

At first the Mission house at Darjeeling was situated considerably below the station, but about the year 1890 the Mission procured a commanding site in Darjeeling itself. A handsome church was built and recently a new school house has been added

Women's work is carried on in the same compound. The Daijeeling Mission has many primary schools on tea gardens in the district, and though its activities are by the nature of things less numerous than those of Kalimpong, its influence is very great. In recent years Kurseong has been elected into a separate centre, and now with its resident missionary and its new church it superintends village work down to the Doom's

Passing from Daijeeling across North India we come to Sialkot, Daska, Gujrat, and the Native State of

Chamba

The Sialkot Mission was founded in 1857, shortly before the mutiny, by Mr Hunter who had come up to the Punjab from Bombay He was murdered in the mutiny troubles, but the Mission thus begun in tragedy was continued From it, in time, work was carried to Waznabad and Gujrat At Waznabad there has been a notable accession of low caste people to the Christian Gujiat which at first was a difficult field has yielded to a large extent to the steady Christian siege carried on by the Mission through medical work and preaching and teaching Agencies have been multiplied and much activity is shown in the various branches of work in operation among women as well as men Medical Missionaries of Gujrat of both sexes have made the Mission popular in the whole district elsewhere the entirely beneficent work of dispensary and hospital has removed the antagonism and piejudice that often exist in simple minds to the preaching of a gospel deemed alien The Women's hospital is a distinct feature of the Gujrat Mission Daska was at first managed from Sialkot, but events justified making it into a separate centre. In addition to the usual equipment of a Mission, Daska has a Training School for catechists and evangelists

The Native State of Chamba is friendly to the Mission work which was begun in 1863, but was not formally made over to the Church of Scotland till ten years later Medical work here also gained the confidence of the people The benefits conferred upon the people were frankly recognized by the Rajah of Chamba who gave to the Mission the Church, both site and building. The foundation stone was laid in February 1899. This gift is, if not unique, at least very exceptional. A Hindu Rajah, proud descendant of a long line of rulers whose family traditions extend over one thousand years, must be not only magnanimous personally, but fully persuaded of the benefits conferred by the Mission on the sick and ignorant before he can venture on the gift of a church to the Mission. The significance of this act can hardly be overestimated.

In 1894 the baptisms in the various stations of the Church of Scotland's mission in the Punjab totalled 607 Since that date numbers have increased

After bitter opposition the Church of Scotland chained a footing in Jammu in 1889. But it was not till 1902 that the Maharajah of Jammu gave formal permission to the mission to settle there. A site was granted for a European missionary's house, and organized work is steadily maintained.

By co operation with the United Free Church the spiritual needs of Scotsmen in the mills near Calcutta have been supplied by the appointment of two ministers, one representing each church. Such co operation will probably be more usual in the future. An English service in connection with each Mission centre where Furope has live would help to cover the ground. Such a service in the Mission Church at Darjeeling has live to a strictly helpful to Presbyterian visitors at that health resort.

CHURCH OF SCOTLAND MISSIONS

These are found at Calcutta, Madras, Darjeeling, Kalimpong in the Punjab at Gujrat Sialkot, Chamba, Diska and (for the work of the Women's Foreign

Miss on) at Poora

The first missionary of the Church of Scotland to Ind a (though not the first Scottish miss onary) was Mexander Duft, the perferved orator and preacher, the most courageous apostle of Christ Scotland ever sent He landed in Calcutta in May 1830 after being twice shipwrecked on the way. His instructions were to study missions in Calcutta but not to dream of settling down there. The study of mission operations then being carried on in the city led him to the resolve that Calcutta needed a new kind of Christian effort that would bring Christianity into the circles of the middle class who were more or less educated united the propagation of Christianity with the impart ing of sound English education. His method has been followed all over India by one Church and Society after mother, although there have always been severe critics of this combination of Christianity with education Currously enough, the same virulent criticism has never been duccted ignist the combination of preaching and medical work though the two forms of Mission work aic verv similar

Duff did not get much help from other missionaries in Cilcutta but went on with his programme. And whitever surface objections may be made to Educational missions this much is to be said for them, that they are the only form of mission work in India that timulatises the mind of the educated middle-classes with the Inowledge of Christanity. It may be argued that so difficult a class is not worth the trouble of even classing. But this argument gnores the social value of the class concerned, in whom many of the hopes of India are centred. To omit educational missions from the programme of Christianity would practically mean the exclusion of the middle classes from the propaganda.

Duties with it in his day and he had the courage to defe his instructions and the ligibrous discussions at the older missionaries in Cilcutta. He remained in the city, which promptly recognised him as her most eloquent spokesmin and he brought rapidly to a second second second nation of education and

cm dsm

He had some direculty in finding suitable premises the beauty work in rooms land burn by the funous leader of the Brahmo Somar Rapid Ram Mohim Roy. From the beautiful Duti in de religious teaching the distinctive reature of his school, and beptisms soon followed

Duff's second convert was Di Krishna Mohun Barerjee, the most scholarly of all the converts of Each baptism was the signal for a vehement attack on Duff's methods, and for a temporary boycott of hs school But he held on as if nothing had happened and his school became the model for the c ty In 1837 was lad the foundation stone of the General Assembly's Institution in Cornwall's Square At this time Duft was in Scotland Driven home by dysentery, he had been detained to plead the cause of missions, and his wonderful eloquence kindled miss onary fervour in the undivided Church of Scotland returned in 1840 he found the work in the hands of Mackay, Ewart, Macdonald and Thomas Smith prospering steadily There were about 900 pup is at this time and their number was constantly growing Then came the Disruption of the Church of Scotland in 1843, and the pathetic relinquishment by Duff and his colleagues of the Institution reared by his labours and his eloquence. After the disrupt on it was closed for some time It was soon filled after the re opening in 1845 and is now the largest missionary educational institution in North India It was built up into a great College under Dr Ogilvie, and subsequently under Dr Hastie and others It occupies an excellent site in the Noithern division of Calcutta In 1908 the two institutions founded by Dr Duff (the General Assembly's Institution and the Duff College) are to The College will meet in the Cornwallis Square premises with a new Science block. The School classes are to occupy a new handsome building in the same The name is to be Calcutta Christian College, and it is safe to say that a very strong college will result from the union of the two institutions

The woman's work is carried on at Bowbazai Calcutta. Hindu girls' schools, a boarding school for Christian girls, and zenana mission work are the activities of this brauch of the Mission which contemplates acquiring new and more suitable premises at the north end of the city.

At Muttinbruz, Budge Budge and Ghoosciy small outstations are maintained, superintended by a mission

ary resident in Calcutta

At Madras there is a second grade College (teaching up to the Intermediate Examination). It was begun in 1837. It has one European professor usually. The Woman's Mission has school and Zenana work. About 40 miles from Madras is Arkonum, where mission work is carried on under a European missionary. Educational and exangelistic work are steadily maintained.

The Mission at Poona has a hospital for women which attracts patients from fir and near. The boarding school for Christian girls and the Zenana Mission work are adapted to the needs of the communities served.

In these cities successful work has been accomplished and steadily maintained, but it is in rural districts that most of the success of the Church's missions has been reaped. The mission in the Darjeeling district has been not only a religious force, but a social elevator of the community. Kalimpone has its Training School for Catechists, its Hospital, its Weaving School, its Lace School, its home industries as well as its large and well filled church. From it as centre there have sprung up numerous village churches, built largely

building is less than ten years old. The Christian congregation meets in a church which was handed over to the Free Church by the London Mission in 1840 At Chinsurah also lives the district missionary who has to superintend stations to the north and west At these centres educational and evangelistic work is carried on, and although there is no qualified doctor, a good deal of medical aid is rendered to the inhabitants of a malarious tract of country The missionary at Chinsurah is a distinguished Bergali scholai who in addition to superin tending the mission work of a large district has written two commentaries which have been highly commended by competent authorities

The work of the 'Vomen's Mission is very actively carried on at Hughli and Kalna (where lady missionaries from Scotland are at work) and to a smaller extent at other centres which are supervised from Hughli

The United Free Church maintains two European cong egations in India, one at Calcutta and the other at Bomba, They are both the offspring of the disruption of 1847 They minister to Scotsmen and others who adhered to the Free Church in 1843 and

The ministers are usually selected in Scotland by a special Commission The congregations are managed by Kirk Sessions and Deacons' Courts, the members of which are elected by the congregation The congrega tional Funds are vested in Local Trustees The con gregations are entirely self supporting The income is derived from subscriptions, offertories, and interest on endowments The congregations are represented on the local mission Councils and Presbyteries congregations occupy a worthy place in the estimation of Scotsmen in Calcutta and Bombay

MADRAS

Madias is the centre of the largest and best organized mission of the United Free Church in India In the recently published "Story" of this mission, the progress of the mission is thus summarised —
"In 1837 there was one missionary, in 1907 there

are twenty-six-fourteen sent out by the Foreign Mission Committee, and twelve by the Women's Foreign Mission of our Church There were no Indian ministers of our mission then, now there are seven There were no congregations then, now there are five fully organized There were no members or adherents then,

now they number over 2,500 "

In the Southern Presidency there is a different atmosphere from the north of India There is the hereditary influence of an ancient Christianity that dates from the carly centuries of the Christian Church, and tradition would have us believe that the Apostle Thomas actually visited the land In 1542 Francis Xavier included South India in his world-wide tour In 1705 Liegenbalg set out for Tranquebar But it was not till 1726 that a missionary settled at Madras This was Schultze, the successor of Ziegenbalg the 19th century began there were 4,000 converts

In 1835 two chaplains of the Church of Scotland established a school on the lines of Dr Duff's in Calcutta and sent home an appeal for a missionary In 1837 that missionary, the Rev John Anderson, after having seen the work in Calcutta, arrived in Madias He began in a rented house with 59 boys The prospectus indicated that the school was to follow the lines of Dr Duff's school, and ambitiously included in the list of subjects "the elements of astronomy and political economy, logic, moral philosophy, and natural theology, the evidences and doctrines of Christianity"

Under Mr Anderson the school rap dly grew colleague arrived from Scotland in 1839. Then came the first blow Three panah boys had been innocently admitted into the school The caste pupils protested vehemently when they discovered it, and demanded the expulsion of the offending pupils Mr Anderson fought out the battle of caste, retained the boys, though the struggle cost him over one third of the pupils But the day was gained Part of Anderson's plan was to establish branch schools in important centres in the Presidency Conjeveram, Nellore, Chingleput, Tiruvallur soon had schools A school was also begun at Triplicane in Madras

In 1841 came the baptism of two of the senior pupils A storm of fanaticism broke out But the youths declared before the magistrate their intention to remain with the missionaries The school was nearly emptied only 70 pupils remained out of 400 Subsequent baptisms did not create the same opposition perhaps, but whenever a convert of good family was baptised, the stress was great But after each emptying of the school the numbers grew again In 1843 came the disruption of the Church of Scotland and the Mission went over bodily to the Free Church The Christian public of Madras subscribed f1,700 to start them As the work of the mission had been carried on in rented premises, no real property had to be sacrificed

There was no break of system or of staff The Free Church carried on the work begun by the Church of Scotland with ever-increasing success In 1855 Mr Anderson died, and with him the first period of the mission may be said to end He was a man of lare

enthusiasm and insight

The second leader was William Miller who landed in Madras in 1862 and has been till recently in the field He has now gone to Scotland in broken health, but the indomitable will of the man may yet bring him back to his beloved Madras

When he came, the mission was reduced to great The death of Mr Anderson and the failure in health of other members had wrought havoc with the school For a time Dr Miller was the only representative of the church This gave him the opportunity of working out his ideas By 1864 equilibrium had been restored Finances flourished, discipline was good, and the staff was replenished In 1865 a college class was added This was carried on to the BA stage and candidates were presented for the BA examination in 1869 Dr Miller was not yet satisfied. He planned to have a Central Christian College in Madras for South Indian Missions The Church Missionary Society and the Wesleyan Missionary Society gave grants to the College Other missions agreed to send students In this way the Christian College was started in 1875 The Free Church Christian College was started in 1875 of Scotland was responsible for £1,400 a year, the C M S for £300, and the Wesleyan M S for £300 for a man.

UNITED FREE CHURCH OF SCOTLAND The schurch was formed in 1900 by the Union of the The schurch was formed in 1900 by the Union of the Free Church (founded in 1843 by the Disruption) with the United Pre-byterian Church, formed in 1847 by the United Pre-byterian and Relief Churches Union of the Secession and Relief Churches on or or the Screen on and Rener Onurches In 1900 a small body of Free Church members and adherents refused Un or of the Sucess on and Relief Churches to enter the Uron, went to law to claim the property of the Tree Church, and after losing their case in two of the free Church, and their world their world in the divisions of the Court of Session in Scotland, won it in the Appeal Court of the House of Loids But the people of Scotland would not tolerate an arrangement that or scoriana would not tolerate an arrangement that Parliament was passed incorporating a Commission to runament was passed incorporating a Commission to divide the property of the Free Church equitably bet ween the United Free Church and the legal Free Church ween the Officer Free Church and the regal Free Church The Comm ssion in 1906 handed ever all Mission pro perties and specially destined funds held by the Free Church before 1900 to the United Free Church equently the latter church may be considered the real sequentity the latter church in the Mission field and the possessor not only of its build ngs but of its h story esor not only of its building but of its a story As a matter of fact the Union of the two churches in

As a matter of ract the Omon of the two churches in 1900 did not affect the Indian mission except to increase The spheres of occupation were different The spheres of occupation were unicient Niggur, Church held Calcutta, Madras, Bombay Poona, Niggur, the \izzm \ Termtor\, the Santal country, and district missions near their city centres, while the United Pres missions near their city centres, while the Omice Treshyllons mear their city centres, while the Omice Treshyllons Mission occupied the territory of Rajputana Therewas no overlapping The Union was clear gain. the Union was clear gain there was no overlapping before to be remedied now by curtalment and mi perore to be remedica now by currenment and migration of the could be brought about between the The Union was clear gain gration at Union come he brought about between the Missions of the Church of Scotland and the United Free Unssions of the Church of Scotting and the Omica Free Church there would be a series of Christian garrisons control there would be impressive and contered over India that would be impressive and In view of the Union of these muturny supporting in view of the Union of these two Missions in Calculta recently sanctioned, it is not two ussions in Cucuter recently Sunctioned, it is not quivous to intertain the dream that a comprehensive mutually supporting

quisone to entere in the cream that a comprehensive union will one div take place. Free Church has issued. In recent years the United Free Church has issued. a series of hai dbooks dealing with its various Mission rections of the following fields. It is from these handbooks that the following account of its Messons has been gathered

The Vission at Calcutta was simply Dr. Duff's work in 1843 (begun in 1833) transferred from the Church of in 1043 Juegun in 1.37 a insterred from the Church of He left the hulding he prst had only recently erected and entered, and for two years All his colleagues, teachers and
Most of his chief supporters at home belonged to the party of the Church of Scotland it remained empty home belonged to the price of the Charles of Social Mit went out in 1843 (Stern long per od of windering which time Duff's thout in search of a site, during which time Duff's chool was held in hired premises, he settled down in school was held in hired premises. There in 1857 was After a long per od of wandering pupils went with him action was near in a real premises, he settled down in a district of Calcutta i ear the river. There in 1857 was built a hard-ome college and school in commodious and well equipped premi es which cost \$15,000 and wentequipping premit es winten cose \$15,000 It was a spirit of chivalry that took him away from Cornwallis There was a site equine, the sit of me first compound, but he decided to take squire, the site of his first college The work into reorganized quarter a mile to the westward The work into reorge-readurater a mue to the westward. Calcutta has developed, his second site has turned out His college to be unfortunate to come to ma purposes. This conege the situated in the midst of just and rice warehouses for TWIN from the city discribing centre and remote Is the city has grown, from the student population

the disadvantages of the site for education have been intensified, and it was practically decided some years ago either to unite with the Church of Scotland, on to remove the college to some more suitable site The school and college that Duff founded in 1843 and

installed in its new building in 1857 has had a striking mstaned in its new building in 1057 has had a striking career. For many years while Calcutta was sparsely provided with schools, Duff's school had from 1,200 to provided with schools, purpose were reached after 1800, pupils. The highest numbers were reached after ndia But gradually education spread in Calcutta, and with the increase in the number of schools the number of pupils attending any one school 1,800 pupils Duff had left India No such school is possible or desirable diminished

Round the college and school there grew up the usual to day

Some pupils were trained in theology college was affiliated to the University of Calcutta in 1857, and from the first its students took a good place activities

A native church was built and gradually attracted a group of leading Bengali Christians A Christian Home in the University

for students and converts was established In course of time the European staff was increased woman's work was extended The Zenana Mission

and woman's work was exenued the John School were accommodated in the same and woman's work was extended premises till 1888 when the Zenana Mission entered a new premises in 1000 when the Zenana Mission entered a new building and underwent great developments Subsequently the Grls' Boarding School and Orphanage, having grown greatly from the original orphanage of the having grown greatly from the original orphanage of the early days of the mission, was housed in one of the best planned buildings for that purpose in one of the woman's work of the Mission has been very successful. The men's work has been been been to be successful. woman's work of the Mission has been very woman's work of the Mission has been largely a conquest successful. The men's work has been largely and has been in of the difficulties of an unsuitable site, and has been in years an almost unique open air service has been con the circumstances singularly successful ducted Sunday after Sunday in Beadon Square, but this form of activity has during the recent political uniest in Calcutta been severely beyonded and though still in Calcutta been severely boycotted and though still maintained is in the meantime little more than a name In all these forms of activity, education, preaching,

zenana visiting, training of agents, training of teachers and Christian development the Mission has done con spicuous work often in very adverse circumstances in the

BENGAL RURAL MISSION

The mission district worked by the United Free Church is in the Hughli and Burdwan districts leading centres are Chinsurah, Kalna, Mahanad is now princ pally a medical mission where three doctors (two men and one lady) minister to crowds of sick people On dispensity days somet mes is many as 500 patients. On the property days somet mes is many as 500 patients. There is a large hospital with have to be attended to the modular women. The malarious separate blocks for men and women the modular messages been the modular messages. district keeps the medical missionaries busy Their excellent work has been acknowledged by the acceptance of Page 1. ment of Bergal which gave a liberal grant to the erection of a new hornital. The mission of Kalna dates from 1842 ment of pergal which gave a lineral grant to the erection of a new hospital. The mission at Kalna dates from 1843. of the mospical the mission of Kamer whee Mont About small Christian congregation At Chinsurah there is a At Chinsurah the account thigh Calculation and the account things a strength that a strength the account things a strength that a strength the account things a strength that a 1890 the medical mission was organized small Christian congregation At Chinistral There is a High School which dates from 1849, though the present 1829, amid bitter opposition from the Poona Brahmins whose bigotry (or orthodoxy) is notorious. It was very up hill work, but schools were established and successfully maintained The High School was carried on till 1888 when it was closed Bazaai pleaching on ordinary lines, proving more or less casual, was supple mented by more systematic teaching and discussions in hired rooms Religious work among students in Poona has been in many cases fruitful of a higher life, but has not as yet led to many baptisms The Christian congregation in Poona, probably because of opposition has developed a vigorous life Two ordained mis sionaries by word and pen are now expounding Christianity in Poona to its very cuit cal audiences Among the villages evangel st c work s diligently carried on

Women's work is represented by a good Boniding School for Christian girls, H rdu girls' day schools and zenana visit ng

BOMBAY

The Wilson College is the principal agency of the mission in Bombay It is named after the founder of the mission, Dr. John Wilson, a man of tremendous learning and unique personality who arrived in Bombay in 1829 He started a school in 1832 prepared text books for it and was at once successful The Church of Scotland took over the mission in 1835 For many years Wilson, Nesb t, and Muiray Mitchell made the school prosper Learned debates with Hindus and Mussalmans were carried on by Wilson who was a rare protagonist Unwearied with this contest, when attacked by Parsis, he replied with a trenchant exposition of the Parsi religion Two Parsi students were baptised n 1839 amid fierce excitement. One of them after being educated in Scotland became, and still is, a mis sionary of the church But these baptisms emptied the school for a time Other baptisms were those of Narayan Sheshadri (in 1843) and Baba Padmanji (in 1854)

In 1857 the University of Bombay was founded Its policy was largely shaped by Di Wilson, who was distinctly the greatest personage in Bombay Under the University regime the school and college made

great progress

In 1874 Di Mackichan, the present Principal of the College, arrived in Bombay, and from the first devoted his splendid energies to the development of the college From funds raised in Scotland, largely supplemented by a Government grant, a new college was built, and opened in 1889, as a worthy memorial of the great Dr Wilson. The College occup es one of the finest sites in Bombay. It is regarded as the chief centre of religious work among the educated classes in the city. It stands very high in academic reputation. Its students gain many honours in the University, and its influence upon the life of the community, though perhaps not so great as that of the Madras Christian College, is the highest in the city.

The High School is similarly successful The women's work in Bombay includes the usual union of forces, vir, Christian Girls' Boarding School, non Christian Girls' Day Schools, and Zenana visiting The

mixture of communities in Bombay considerably modifies the influence of the pundah, and lady students (Parsis and others) are frequent attenders at the Wilson

College

The district work in the Konkan is superintended from Alibag, where since 1880 an Indian missionary and from 1895 a European missionary, nave been stationed. The duties of the missionary include preaching, superintending, training catechists, and itinerating. The work amongst women and girls is superintended by his wrife.

NAGPORE

This mission began in 1844 with money handed by Captain (afterwards Sir William) Hill to Dr. Wilson to this purpose. The money was promised before the Disruption. But the mission was not sanctioned till after that event. Thus, it was entirely a Free Church Mission. The first missionary was Stephen Hislop, who in 1864 (after touring his district thoroughly) opened his first boys' school in the city of Nagpore. Here too there was a fight over the admission of low caste pupils, and over the first baptisms. As Nagpur d d not become British territory till 1853 the mission had to face all the opposition of a Native State.

In 1858 fine buildings were erected in the city The Chr stian congregation had been steadily growing, and under Hislop the activities of the mission were health ly Then came the great catastrophe of the mission in the death by drowning of Hislop in September 1863, as he was returning to head quarters from an out He was a distinguished naturalist and a man of great sagacity whose loss at this stage seemed almost He was the trusted friend of high offic alas well as of the humblest Christian But the progress of the mission was not to be held back Nagpore s considered a model mission because of its variety of activities in a compact little city which the mission permeates It has a college which, though it cannot compare in numbers with those of Bombay, Madras or Calcutta, is yet relatively as important from a Christian point of v ew as any The evangelistic work is very thorough Primary education is diligently carried on Outstations are super ntended from the city. A dispensary for men does useful work

MEDICAL WORK AMONG WOMEN

Nagpore shares with Madras the honour of having a woman's hospital under this church. At each station two medical women are maintained, and probably in future three will be provided. The women's hospital is nearly always full. Patients come from great distances. The medical mission was begun by a donation from the late Sir William Henderson of Aberdeen. The income provides the salary of a woman doctor. His daughter was the first incumbent of the post. She has recently had to resign owing to ill-health, brought on by heroic labours in epidemics to help poor people. Government rewarded her services with a Kaisar-i-Hind medal.

Girls' schools and zenana visitation are systemat ically carried on For Christian girls there is a boarding

school

The success of the last thirty years has shown the wisdom of Dr Miller's experiment. The Christian College has been a worthy fortiess of Christianty in South India and its influence has been simply incal culable. Behind the loyal and able staff there was the master mind of Dr. Miller. His services to education were recognised not only in his College but by the authorities. From Aberdeen University came the LL D degree from Edinburgh the DD, from the Government of India the CIE, for his services in connection with the Education Commission. The citizens of Madras and former students have erected a statue of him in Madras. His is probably the best known name among contemporary Indian missionaries.

The College is prosperous in every way. It has Soo stadents in addition to 900 schoolboys. It occupies three site, though the arrangement of class rooms is now rather antiquated. The new University regulations necessitate more and better accommodation than was permissible before, and friends of the College will doubtless give additional buildings to an institution of which any church or group of churches may well

be proud

Medical m ssion work was carried on for some time Di Paterson came from home in 1856 as the agent of the Edinburgh Medical Mission and he was closely associated with the Midical Mission. He left in 1870 and died soon thereafter. His successor was Dr. Elder, who belonged jointly to the Edinburgh Medical Mission and the Free Church Mission. He retired in 1883. No successor came from home, and the dispensaries were handed over to the Women's Foreign Mission, whose medical work is reported on below.

There are two Christian congregations of this mission in Madras, one in the College Church and the other at Royapuram. Both are solid Christian congregations. The Royapuram congregation supports the catechists in charge of a neighbouring village congregation. The Indian Churches of this mission and the Aicot Mission (Dutch Reformed Church of America) united in 1902 and since then they have likewise joined the Presby terian Church in India which was constituted in 1904.

DISTRICT MISSION

Chingleput, 35 miles from Madras, is the centie of a great variety of mission work and experiment. The first beginning was a school planted down by Mr Anderson us a branch of the Madras Institution in 1840. It has now 300 boys. The first resident European missionary was a German It was not till 1879 that a Scottish missionary arrived-Mr Andrew-and he is still the directing mind of the district He greatly increased the number of catechists and successfully evangelised the district From Chingleput there sprang up three other stations, Walajabad, Conjeveram, and Sriperambidur Experiments have been made in settling Christian peasants on land granted by Government to Mr Andrew The colony at Melrosapuram is very successful The children are taught not only the three R's but also agriculture, tope making and mat-weaving In other colonies the results are not yet so well marked. The work of Mr. Andrew in · using the lot of the depressed classes was rewarded

by a Kaisai i-Hind medil. The Christianisation of the villagers has been satisfactory.

Conjection, about 50 miles from Madras, one of the special cities of Hinduism, was visited casually for many years as part of the mission work of Madras. But in 1889, this unsutisfactory arrangement coised by the arrival of a resident medical missionary, who was soon however, transferred to the neighbouring village o Wilajabad. His successor has reverted to Conjectam, but nedical work is curried on equally in both places. A hospital has just been opened at Conjectam Primary schools have been established, and there is a vigorous Indian. Christian congregation.

Sufferambadur has had a resident missionary only tor nine years, and work is still in its beginnings

Women's work in Madras and district is of high quality. The Christian Girls' Boarding School in Madras, where 150 boarders and 100 day scholars are taught by skilled teachers and gradually led up to the Matriculation standard of the University, has an excellent building and ample grounds. The seven Hindu girls' day schools in the city with 1,000 pupils bring enlightenment into the only too brief years of the Hindu girls' school-life, and as far as possible in that time give the elements of a sound education.

At Chingleput Boarding School lace making and other useful arts are taught in addition to the ordinary school course. Small schools for Hindu girls are scattered throughout the district evangel sed by the mission.

There is a training school for female teachers in connection with the Madras Boarding School, with an average attendance of 25 a year. They are given a one year's course, and are sent out to teach. The Madras Pres dency is ahead of other Indian provinces in its training of teachers.

The Zenana Mission in Madias experiences great difficulties owing to the bigotry of its Hindu women But the educational advantages offered are eagerly welcomed. Scottish ladies and Indian Bible women carry on systematic work in many homes both at

Madras and the district centres

MEDICAL MISSION WORK FOR WOMEN

In 1888 the first woman doctor sent out by the Free Church began work in the dispensary formerly used by Dr Elder Since then great extensions have been made A hospital for women was provided unother woman doctor was sent, a new dispensary was opened in another part of the city. Six thousand five hundred patients annually pass through the dispensaries. The hospital has 600 patients a year. In the district dispensaries 11,000 patients are treated every year. The medical work brings in over £500 in fees.

MAHRATTA MISSIONS

Under this heading we may group mission work at Poona, Bombay (with Alibag), Nagpore (with Bhandara and Wardha) and Jalna

Poona

Mission work was begun by Scottish missionaries in the intellectual capital of the Bombay Presidency in

The first occurrence in the history of the mission was in the famine 1868 70 Eight hundred orphans were almost thrust upon the mission The home church nobly undertook their maintenance But death from famine werkness reduced the number to 500, who were distributed among the four stations, where they were educated as Christians and trained for work, some as mission agents, others as artisans

In 1870 the station of Deoli, south east of Ajmere, Was opened, and in 1872 Ashapura near Deoli Was opened, and in 1072 Ashapura near Deon in 1872 Jaipur was formally occupied as a station of the church

In 1877 Udaipur, south west of Ajmere, was occu pied by Dr Shepherd who still holds the fort a man was stationed at Alwar, north east of Almere In addition to the ordinary teaching and preaching at first undertaken, medical work was added missionalies were stat oned at Berwar, Almere, Nasira bad, and Udapur Three of these were afterwards ord uned by the local Presbytery established in 1880 In 1885 the Presbytery licensed five native preach ers who became the fits accredited native ministers

The following notes on the history of some of the stations may be interesting

Beawar Was founded in 1860, a school was established at Naya Nagar in 1862 under Di Valentine Brahman, was baptised in 1863 A church to hold 500 Was opened in 1873 A native pastor was ordained in Medical work began The first convert, 7

Annere In 1861 a missionary visiting it to prospect found a Christian family The first missionaries had to live far off from the bizzir It 1869 a school house and a large hall were built. In the hall the church met The first convert was a Jun priest, who became a devoted Christian worker. In 1871 medical work was begun by Dr. Husband who opened a dispensary and later on a hospital, and who for some veris was Churman of the Municipality Government subsequently rewarded his services by conferring on him the C I E accoration

Nastrabal—The chief British in litrity centre in Ruputana was opened in 1861 as a mission station One of the first converts was a Mussalman who hid a great gift of song Christian ghazals He wrote some of the most popular

At Ashapura, near \ashabad, a Christian colony was planted from among the famine orphans In recent years after a later famine, Ashapura was crowded with famine orphans There has been medical work since developed into a High School in premises given by the Municipality A handsome church was erected in The Mission School has

physician to the Waharajah In his high position he helped on Christian work In 1857 the Waharajah Gara helped on Christian work In 1871 the Maharajah gave him piece of ground for a bungalow which he handed over to the mission In 1872 It was occupied as a regular station by the mission Educational work is well organized. The congregation is still small as the opposition in Jet pore to Christianity is considerable Usanpur Dr Shepherd made friends by his

medical skill and obtained suitable ground for a

bungalow Later on mother medical missionary obtrained a site for a hospital which was built with funds Tained a site for a norman winding in south with the last opened in the site of the property opened in the site of the property of the propert 1886 From Udapur as centre a mission to the Bluk induced Rhill have to control by Rhill have the control by R and induced Bhil boys to enter his Bhil home it Udaipur 1 beautiful chuich was opened in 1891, though the Christian community is still small

Jodhpur, the capital of Marwar was not occupied as a mission station till 1865 when Dr Sommerville went there, but such hostility prevaled that he could not obtain a foothold till 1886 By his medical skill he was a fact foot of the Maker vol. not obtain a normoid un 1000 Di ins incuit il sain in disarmed hostility and at last the Wahar ijah gave a site where a bungalow at his cost was to be built for the mission. This bungalow was built and occupied in 1887 Medical work is the distinctive feature of this mission

The first work in each station was done by the wives of missionaries But griduilly it was found necessary to send out ladies from Scotland to overtake agents of the Woman's Foreign Mission, who teach Agents of the woman's foreign wission, who was Hindu girls in day schools Christian girls in bounding schools, nurse and tend famine orphans and train them up in useful arts The first zenunt missionary was Mis-Diving the w dow of a missionary who began work m 1866 It was after 1880 that zenan i work we is adopted 35.3 regular branch of the mission, and ladies came out from home in sufficient numbers to occupy the stations The principal stations where woman's work is carned on are Ajmere Vasirabad Jevpore Beawar Alwar

THE SANTAL MISSION In our survey of the Mission fields of the United Free Church we started from Calcutta Visited Midras, city and district, then Poona Bombay the Konkan, the Central Provinces, the \izam & Dom mone and Ray put in Turning eastwards we come to the Smith

Mission in Behar, Bengal Proper and Chota Nagpare The Sant il Mission is not in the Sant il Perginn ih In that district the C M S and the Scindin Win Mission were already at work when Dr Duff in the cold weather of 1862 63 toured among the Smt il with the will to establishing a mission among them, to be maint used to estable and a mession among them, to be maintained by Calcutta merchants. Nothing was done at that time but in 1868 60 Dr. Murray Mitchell, after touring the die trict, recommerded the start no of a mission. Put amb a near Gardih was chosen as the first station Sir Um Mackinson and Mr. Peter Mackinson sub-cribed liberally to this mission from the start was in der the charge of a Eurasian kentlem in The first men in an in the contract of the pack and the pack and the first man in the array of the pack and the first man in the array of the pack and the first man in the array of the first man in the first m med cal man who arrived it Pachimbi it the cad of At first the station 1871 In the following very there came Mr. Ar dress Camplell (now Ret Dr (ampb !!) 35 37 India trail mi Compete Complete Dr Templeton begin medically orly that only the complete of t pensary and a small hospital. In 1874 he a not like home and though returning in 1875 Ic my shad though returning in 1875 1c my shad home in 1876 Dr Dver Joinea th Pict of two airctions to the ST and air.

two directions to the S.E. rid with V. Tree ...

Near Nagpole is Bhandara which has really sprung up owing to the labouis of one Native Christian family. It was made a regular station in 1881 and has since had a European resident missionary (now two). It has also a flourishing medical mission with dispensity and hos pital which report over 11,000 cases per annum.

Owing to recent famines and the need of providing for famine orphans, Bhandara has developed into an orphan centre. As the boys grow up, they are taught to earn their living either by agriculture or by employment

in the mills of Nagpore or on the railway

WARDHA

This station in the coal region of Central India was opened in 1889 by a benefaction from Mr J I Morton of London A medical missonary was appointed. He at once opened a dispensary and in 1901 a hospital There is also a school and a small Indian Church. Work among women and girls is carried on systematically

JALNA

Jalna is about 210 miles north east of Bombry in the territory of the Nizam of Hyderabad, and near the battle field of Assaye There is, however, a British cantonment in which the head quarters of the mission are situated But the district is under the Nizam Work in this mission is distinctly among the lower and depressed classes, especially the despised Mangs and Mahars Dr Wilson visited Jalna in 1832 and was impressed with its suitability as a mission centre 1855 he sent a catechist at the request of some Then came the mutiny and the work was In 1861 Dr Murray Mitchell visited Jalna and in the following year sent a convert as colporteur It was arranged that Narayan Sheshadri (whose bapt sm has been mentioned under Bombay) should superintend Jalna from Indapur, 150 miles away He soon found that Jalna was the better centre and inigrated there Schools were started a Christian congregation was formed Villages in the neighbourhood were evan-Every year a considerable number of gelised baptisms took place

But the number of converts laised a new problem of their support and ultimately forced Narayan Sheshadri to found a Christian village on 800 acres of land conveyed by Sir Salar Jung to Narayan Sheshadri This is the Christian village of Bethel, where a church was built on its highest point in 1879. For over a quarter of a century Sheshadri, the Biahman, worked among these out-caste Mangs. It must be admitted that as a Christian experiment Bethel was not a success. But the Christian community gathered was considerable, and work among them, has greatly

elevated the people

In its recent development the mission has two leading characteristics. It has a medical mission manned by two doctors, and a Training School for catechists. The first doctor arrived in 1890 and alone for four years he did everything, medical, evangelistic and educational. Then, in 1894 he was loved by an ordained missionary who took the minis

terial work off his hands. In 1904 a second doctor arrived. In this mission a great deal of social work has to be done. The ignorant peasantry have to be rescued from the money lender and the extortioner. They have to be taught often the first elements of morality, and gradually to be raised to a ligher moral plane. The Christ an congregation for the sake of its own life has to be very strict in matters of discipline. But in spite of these facts the Christian progress of the community is satisfactory. No mission in the United Free Church better exhibits the social value of Christianity.

Work among women is carried on by lady missionaries. The absence of caste-restrictions considerably modifies the conditions of work among women

and girls

RAJPUTANA MISSION

This Mission was brought into the United Free Church by the United Presbyterian branch of the church Unlike the Free Church India Mission which was distributed over three provinces and a Native State, the United Presbyterian Church concentrated their efforts in a well defined area and imong a homogeneous people, with one language (Hindi) as contrasted with the six languages which complicated the labours of the Free Church missionaries, viz, Bengali, Tamil,

Telegu, Mahrattı, Hındı, Santalı

The United Presbyterian Church began mission work in India after the Mutiny The Synod in 1858 resolved to undertake such a mission. After consulting other missionary societies about a field, they selected the district of Ajmere, which geographically is the centre of Rajputana, and politically is British. The first station projected was Beawar, the second Ajmere, about 50 miles apart. To each station two missionaries were to be assigned. Only two men could be fourd, however, and they set sail for Bombay. To reach Ajmere a wearisome journey by bullock cart was necessary and the strain and exposure were too great for one of the men, and he died before reaching his station.

The other, Mr Shoolbred, reached Beawar in March 1860 The death of his companion stimulated the home church and they sent out five additional missionaries and their wives Before the mission was ten years old

a score of workers had come from Europe

The idea of the founders of the mission was to occupy ultimately about a dozen of the 20 States of Rajputana, commencing with the Br.t.sh district, and gradually pushing outwards into Native States. The first advance was made in 1851 when Nasirabad was occupied, even before Ajmere which was manned in 1862, Todgarh following in 1863. Dr. Valentine settled at Jaipur in 1866, but it was not then deemed a regular station of the mission.

Raputana is one of the unfortunate regions of India. At best visited by a meagre rainfall, any failure of the monsoon usually punishes this province severely Famine follows, thousands die, and orphans make their pathetic appeal to philanthropic hearts, and not in vain. Time and again this fateful cycle has repeated itself, insufficient rain, failure of rain, famine prices, starvation, orphans.

Armenian Church in India.

Through much tribulation and oppression, extending over many centuries, the Aimenians would appear to have lost almost everything they once possessed as a nation, save only their nationality and their religion. Like the Jews, they are now a scattered people, with small but important communities in various parts of Europe, Asia, and America, enjoying that security of life and property denied to them in their own land. At precisely, what period Armenians first found their way to India is purely a matter

of conjecture, but sufficient evidence ex ists to show that in very remote times there was a commercial connection between Armenia and India, by way of Persia, and that cordial relations ex isted between the peoples of the two countries It is stated that in the earliest days of the Christian era the headquarters Armenian merchants was at Bena res, or rather, at Kası, at that time a great com mercial empo

rium of India.

STEEPLE OF THE ARMENIAN CHURCH CALCUTTA

on the site of which now stands the city of Benares But the real influx appears to have set in at the period when the Mogul Empire was at its zenith, and the splendours of Akbar's Court at Agra induced the Armenian merchants to form a commercial colony at that historic capital Here was built the first Armenian Church in India of which any record exists. Other places of worship there may have been, for it is claimed for the Armenians that in every country in which they settle they retain

their distinct religion, and that had it not been for the remarkably strong hold maintained on the race by its national Church, the nationality of the people must, ere this, have been lost. The Emperor Akbar appears to have entertained a strong regard for the Armenians in fact, the community seem to have flourished exceedingly under all the Mogul Emperors, and it was at the express wish of their Royal patron that the first Christian Church was built at Agra in 1562. With the downfall of the Mogul power the

Armenians deserted Agra, and the only records now to be found of their sojourn there are the Arme nian inscriptions on the tombstones in the old ceme tery, among which are re corded the deaths of sev eral priests

Before the fall of the Mogul Em pire, the Àrmenians had also es tablished themselves at Surat, but exact dates with reference to this settlement are not in evidence Driven from Persia, where by their com

mercial pursuits they had amassed considerable wealth and had in consequence excited the cupidity of the Persian monarch, a number of Armenians reached Busrah, and thence sailed for India, forming a permanent settlement at Surat Here they built two churches, and were exceptionally successful in their commercial pursuits, until hostilities between the French and English broke out, which proved the death-blow to Armenian commercial activity in Guzerat Of the two churches which they built, one

were founded which are now more Santal than Pachamba itself. At Toondee or Pokhuria since 1879 Dr Campbell has built up a mission of great interest and social value. In 1879 land was obtained at Chakai or Bamdah, and the bungalow was completed in 1887 by Di. Dyer who went there for a few months. Di. Macphail who came out in 1889 has been the real builder.

up of the Chakai Mission

A few lines will have to suffice for detail The parent mission at Pachamba is chiefly a medical mission. Di Dyer superintends the evangelistic work of the preachers and the educational work of the teachers in boys' schools He is a very successful doctor and eye specialist. At Toondee (Pokhuria) besides a large church and good schools, Dr Campbell has established various industriesa printing press, silk spinning, cotton weaving and other Dr Campbell has had to fight famine in his district and has been entrusted by Government with the superintendence of famine relief works. He is an admirable magistrate, greatly trusted by the people as the arbiter of their quarrels. He is an authority on the Santali language, and his Santali Dictionary is recognized as a standard. He is a Kaisar i Hind medallist Dr Campbell is one of the greatest industrial missionaries in India His knowledge of his district is unrivalled Although not a medical man, he is forced into relieving sickness and disease in his neigh bourhood

At Chakai Dr Macphail has built a handsome church which is a conspicuous landmark in the beautiful in dulating country where he lives and works. A hospital and dispensary, built not many years ago, is too small already, so great is his fame as a doctor and an eye specialist. He performs an astounding number of operations for cataract every year.

Di Kitchin is the latest addition to the mission

Di Ritchin is the latest addition to the mission His present duty is to supply the place of Dr Dyer at Pachamba, but he will soon have to begin the founding of a new station west of Pachamba. This will also be primarily a medical mission. In all the medical missions of the Church ex ingelist candeducational work is carried.

on energetically

From this detailed survey of the field of the United Free Church in India two facts are obvious—

(1) This Church does an immerse amount of educational work in Primary and High Schools, and in addition has hitherto carried the burden of four Arts Colleges

(2) This Church is almost in the forefront of Indian missions in the number of its medical missionaries

By these means its contributions to the social well being of India are considerable. Its women missionaries form a large contingent of its workers, and carry the benefits of teaching and healing behind the purdah. It thus occupies an important place among the philanthropic agencies of the Indian Empire



Arrakich hes buried within the church, and by his side are laid the remains of his wife who survived him thirty-five years. In 1837 the Armenian community creeted a black murble mural tablet to his memory inside the church. Outside under a portico at the cast end of the church are some of the more modern graves the tombstones on which mail the last resting-place of men of mark among the Armenian community. On one of these creeted in 1905, 'Sacred to the Memory of Joseph Paul Lsq of New Julpha Persia, it is recorded that he was a benefictor of great zeal, who left by a

greater part of the fruits of his labours for the establishment it Nev Julpha of a Free National Hospital for the benefit of the orphans and the poor of that place and for the repair of the holy churches of Nev Julpha Shiriz and Persi i Bushire in The money thus bequerthed mounting to upvards of four likhs of rupics is nov being expended in accordance with the vishes of the donor. Here also are Ind to rest the re Arr itoon mains of Apear the founder of the vell-loown and veilthy firm of Messrs Apeir & Co. of Calcutta together with several other members of the rimit Arritoon Apcar was born it Julpha in Ispahan in At the age of 1779 sixteen he came to India and entered the service of in Armenian merchant in Bombay 3 here he guined experience in

the trade vith China and Manila. In 1830 he came to Calcutta where he founded the present firm of Ape ii & Co. His vis a useful life and he used the wealth which he acquired for charitable purposes. He endowed the Church of St. Mary at Julpha in which he had been christened, with miny liberal gifts and also left it a legacy. He died in 1803. The Apears of the present generation follow the footsteps of their common ancestor in the matter of charitable contributions in aid of their less fortunate fellow-countrymen.

The Armenian Churches in Bengal are possessed of considerable vieith and the management of the property of the Holy Church of Nazareth at Calcutta, and of the Church of St. John at Chinsurah, is vested in a Committee consisting of eleven members of the Armenian community resident in Calcutta, or within a radius of lifty miles thereof. These are elected at a general meeting of the Armenian community of Calcutta. The Committee remains in office for four veirs and two Wardens are elected from among them selves by the members. These are entrusted with the immediate management of church property and

the administration of endovments, funds and charities under the supervision and control of the Committee

The Holy Church of Nazareth is a very wealthy church and its revenues have been lirgely in creased by judicious investments, during the Wardenship of Mr 1 Stephen and Mr M V Apcar Liberal contributions are made to the various charities for the beneit of the poorer members of the community and all needy Armenians have their immediate necessities relieved Help is afforded to those desirous of procuring work in Calcutta or of travelling further andld in search thereof There is also an Alms-house situated in Pollock Street, which is supported from Church funds, and fifty boys are always in training at the Armenian College their schooling fees and other expenses



CORNEL IN THE CRANTA ARD OF THE ATMENIAN CHUPCH CALCULTA Showing the Porch near which are the graves of the Apear Landly

being paid by the Church There being no distinctive Armenian educational institution for girls, a certain number of these latter are sent by the Church to the Calcutta Girls' School and their fees are paid from Church revenue. In former years there was a girls' department in the Armenian Philanthrophic Academy but it was allowed to Tipse in 1842. There was also in years gone by an Armenian infants' seminary, founded by the Inte Mestovb David Thahatin in 1846 and dedicated to the tutelar Saint, Sanduct, an Armenian princess who suffered martyrdom for her Christian

while the other lies in ruins in the old cemetery, which itself is still in existence, but is not in use other he, in runs in the old cemetery, which itself contains convincing proof of the flourishing condition of the community in the middle of the facilities. contains convincing proof of the inddle of the Lighteenth of the community in the middle of the Lighteenth

Century

It was in the days of Mogul supremies that the Armenians first founded settlements in Bengil and when Murshidabad, the sert of the Vicero)s of and when Aurshidabad, the seat of the Armenians the Bengal, was at the height of its glory Syedabad of Sormed a permanent settlement at Syedabad of the formed a permanent of Murshidabad by Airmer the Royal frames resued in 1662 by Aurinor to the Royal frames resued in 1662 by Aurinor to the Royal frames resued in 1662 by Aurinor to the Royal frames resued in 1662 by Aurinor to the Armen Royal frames resued in 1662 by Aurinor to the Armen Royal frames resued in 1662 by Aurinor to the Armen Royal frames resued in 1662 by Aurinor to the Armen Royal frames resued in 1662 by Aurinor to the Armen Royal frames resued in 1662 by Aurinor to the Armen Royal frames results and the Ar commercial suburb of hurshidabad by virtue of the Royal firman issued in 1665 by them to piece of Nogul Emperor of Delhi granting them to found and at that place with full permission to found and at that place with full permission to found. land at that place with full permission to land at the Thir their did and surger here. land at that place with run permission to found colony there. This they did and success here colony there in India attended their commercial under-It wis not hovever until nearly one takings it wis not now ever unit neutry ime hundred years later that a church has cheered at nuncied years rater thritia church at church at Syedabad though the Armenians had a church at Syedadad though the Armenians had a church at Chinsurah built in 1695. From the Carriest days of their settlement in Bengal the Armenians that attached themselves to their conference in trade the attached themselves to their conference in trade. attached themselves to their confreres in trade the attached themselves to their conferes in trade the Dutch at Chinsurah under the leadership of the famous and opulent Margar family who were high the Mahamadan ruler. iamous and opunent wargar runny who were mgn. The Armenian in favour with the Vahomedan rulers. the remomentary of the state of the Baptist, is the second oldest Christian Church in Bengal pride of place being taken in this respect in Bengai pride of place being taken in this respect by the Roman Catholic Church and Priory 11 Bandel by the Roman Catholic Church and priory it Bunder which was erected by the Portuguese in 1599 burnt which was elected by the Fortuguese in 1599 burnt to the ground by the Moguls in 1632 during the to the ground by the Moguis in 1032 during the siege of Hughli and rebuilt shortly afterwards by its worshippers The Armenian Church at Chinsurah vas worshippers siege of riugill and fedure anothy aftern not by as worshippers. The Armenian Church at Chinsurah v as worshippers the pious Margar family alluded to erected by the pious church. Its splendid steeple above as a national church was not built until the which carries as a helfry was not built until the above as a national church as not built until the which serves as a belfry was not built until the beginning of the Nineteenth Century her it was added to the church by Soobia Sman Ragger and added to the church by beginning of the Nineteenth Century Bagram an added to the church by Sophia The most famous Armenian lady of Calcutta added to the church by Sophia Simon Bagrain and The most famous Armenian lady of Calcutta Was Khojah Johannes member of the Margar family was Khojah may be some took may be a solution of the member of the Margar tamily Was Khojah Johannes
Margar who died in 1697 and whose to this day. It
seen in the cemetery at Chinsurah Armenian verse
bears an interesting inscription in Armenian verse
When Chinsurah lost its commercial importance if oears an interesting inscription in Armenian verse. When Chinsurah lost its commercial importance, it by the Armenians, but the national was deserte by the Armenians but the national church they founded there is still in existence and church they lounded there is still in constant day services are held in it at the present day services are neid in it it the present day ine Armenian Church at Syedabad was not built until It is still in existence, but is used only 1750 It is still in existence, but is used only occasionally for purposes of divine worship a service occasionany for purposes of ulvine worship a service being conducted once a year by the Armenian priests connected with the Church at Calcutta

The oldest Christian Church in Calcutta, and the second in point of antiquity to that at Chinsurah, ine second in point of antiquity to that at Chinsuran, is the Armenian Church known as the Holy Church of Nazareth situated in Burra Bazaar It was erected in and the belfry was added ten years later 1724 and the pentry was added ten years Ittel Previous to this however there had been an Armenian rrevious to this nowever there had been an Armenian place of worship near by the site of the existing place of worship near by Even before Job Charnock thurch and built of wood Even before banks of the church had made that celebrated halt by the banks of the had made that celebrated halt by the had attached had made that celebrated halt by the had attached had made that the Armeniane of Chinesirah had attached Hughl, the Armenians of Chinsurah had attached Hughli, the Armemans of Changer and under a Charter, themselves to the English, and under a Covernor themselves. themselves to the English, and under a Charter, themselves to the English, and under a Charter, and under a Charte

and Company of Marchants of London trading to the Last Indies, it was provided amongst other things Last indies, it was provided amongst other times that any hencyer forty or more of the Armenian untion shall become inhabitants of any garrison cities or toy us belonging to the Company in the Tast or towns octonging to the company in the last shan not only enjoy the Indies, the said Armenians maies, the same remembers such not only enjoy and free use and exercise of their religion but there shall also be allotted to them a parcel of ground to also be allotted to them a parcel of ground to creet a church thereon for vorship and service of God in their over var and that we also valle to be found of their over var church to be found of their over cause of the church to be found of their over cause. their own var and that we also valle it our own the church to be built of the church of the church to be built of the church to be built of the church to be built of the church o energy cruse convenient course to be out of timber which after tries the said Arment ins in it liter timber which after tries the said Arment ins in it. and build the stone or other solid materials to their And the end Governor and Company will own liking And the sud Covernor and Company will also allow fifty pounds per annum during the space ilso allow fifty pounds per annum configuration of such priest uso allow anty pounds per annum during the space of such priest, of seven years for the maintenance of such priest, or minister as they shall choose to officiate therein or minister as they shall choose to officiate therein. or minister as they saim choose to omerite therein in But that Armentans had established themselves in the country of the coun But that Armenians and Established incinscives in the vicinity of what is now Calcuta long before this Chirter vas granted is shown by in inscription on Chirter was granted is shown by in inscription on one of the grive-stones in the old Armenian Burialone of the grive-stones in the old armenian Burilground over some of the grives in which the present
church is built. The courtivard which surrounds the course is paint. The course the tombstones most of them old but come if the recent data and many existing church is pave to an tomostones most of them old but some of very recent date, and mong the former to one of the companion of the former to one of the companion of the former to one of the companion of them one but some if the in inscription in the Armenian the former is one with in inscription in the Armenian transfer to the termination made the former is one vith in inscription in the Armenian linguistic vital the beautiful to the translation made for the matter to the Device of the former to t linguige a men according to the translation made the Priest in charge bears the date for the writer by tor the writer by the Priest in charge bears the date of the vert 1633 that has yet been discovered in the city and it is that has yet been discovered in the city and it is that has yet been discovered in the city and it is that has yet been discovered in the city and it is that has yet been discovered in the city and it is that has yet been discovered in the city and it is that has yet been discovered in the city and it is that has yet been discovered in the city and it is that has yet been discovered in the city and it is that has yet been discovered in the city and it is that has yet been discovered in the city and it is that has yet been discovered in the city and it is that has yet been discovered in the city and it is that has yet been discovered in the city and it is that has yet been discovered in the city and it is that has yet been discovered in the city and it is that has yet been discovered in the city and it is the ci monumental evidence v high would seem to support the theory that Armenians had formed some kind of the theory that Armenians and formed some kind of a settlement in the vicinity years before the coming The Holy Church of Nivareth 128 upwards of of the Luglish

thirty years old at the time Sural-ud-Dov lah laid unity years on it the time surif-ua-povin had the horrors siege to Calcutta, when vere perpetrated the horrors siege to Cucutta, when were perpetrated the norrors of the Black Hole Out of the turmoil of those days of the Brick from Out of the Control of those disit presed uninjured and on the Separate occasions,
here the and of the Fighteenth Control
here. it present uninjured the Lighteenth Century, in 1763 and before the end of the Lighteenth Century, in 1763 and before the end of the Lighteenth Century, in 1763 and improved and improved and improved and improved and important the church was repaired, improved and important the last-named very the community in Calcutta and additions were borne by expenses of the repairs and additions were catched a public seniorited and cattern and cattern and cattern and cattern and cattern and cattern are catched as public seniorited and cattern and cattern are catched and cattern and cattern are cattern as public seniorited and cattern and cattern and cattern and cattern are cattern and cattern and cattern and cattern and cattern and cattern are cattern and expenses of the repuls and controls were porne by a public-spirited trimenian citizen that the public-spirited trimenian citizen that the public spirited trimenian citizen 2 public-spirited Trimeman Chizen San Cachek arrakiel who built a wan around the church compound He also presented and erected the adjacent parsonige that the church which ethical address the church with the clock which ethical address the church and the church are the church and the church are the clock which ethical address the church are the church and the church are the church are the church are the church are the church and the church are the church and erected the rajacent parson age the also presented the church with the clock which still adorns the there and which has been been been as the characters. the church with the clock which still adorns the belfry, and which has been keeping time for considerably more than a century and the control of the church siderably more than a century and the control of the church siderably more than a century and the control of the control Sideraply more than a century the third storey of the parsonnee was added recently by Mr \ G the parsonnee was added the firm of Messrs \ Appear, the present head of the firm of Messrs \ Appear, the present head of the firm of Messrs \ Appear, the present head of the firm of Messrs \ Appear siderably more than a century apear, the present here of his marriage of Mr (gah) & Co, who is a connexion by marriage of Mr (gah) and the Cotobial control of the cotobial control a co, who is a connexion by marriage of Mr Again Catchick Arrakiel Mr Catchick Catchick was a wealthy merchant an old inhabitant of the settlement, wearmy merchant an oid innaurant of the settlement, who, in consideration of his public-spirited acts of who, in consideration of his phone-spirited acts of generosity, was selected by George III, at that time terms of the consideration of generosity, was selected by George III, It that time as a recipient of his special Britain, as a recipient of his special King of Great Britain, as a reached India, how King of Before the Royal gifts reached India, which favour Before the Royal gifts and the presents which gives Mr Arralial had died and the presents which lavour Belore the Royal girls reached India, nowever, Mr Arrakiel had died, and the presents, which ever, are Arrakiel nad theu, and the presents, which consisted of a miniature portrait and a valuable sword, consisted of a miniature por trait and a variable sword, were made over to his eldest son, Mr Moses Catchick were made over to ms eigest son, mr moses Catchick Arrabiel, by Lord Cornwallis, the Governor-General, at a public levee at Government House

Freemasonry in India.

In no part of the world is Masonry, in proportion to the European population so strongly represented as it is in India. It may be calculated that in India there are twenty two district or provincial ruling bodies for various degrees some four hundred and minety private lodges chapters preceptories or concluses actually working and some forty to fifty in abeying or dor mant. The District Grand Lodge of Bengal has 61 lodges on its roll and there are at the time of writing at least two new lodges in course of formation * Madris has 26 Bombay (English) 28 Burma 10 Punjah 25 and Cevlon 5 lodges working under the immediate rule of the Grand Lodge of England. To the District Grand Lodges of Bengal Madris Bombay Burma and the Punjab are attached Benevolent funds for the relief of indigent Misons and their near relations and associations for educating their orphans The Bengal Mason c Association for the Education of Freemasons founded in 1869, has now a capital of more than two and a half lakhs, and a considerable income in addition, derived from capitation fees charged on the private Lodges

Freemisonry, as is well known as centuries older than the Grand I odges by which it is at the present day The Grand Lodge of England itself only came into existence in the year 1717 VD, when four "Time Immemorial" lodges banded themselves together for the purpose of creating a supreme Masonic body It is therefore, quite impossible to state the date at which Europe in Masons first foregathered in the Fist Indies Calcutt's commenced its history is a British Settlement with old Job Chunock's "m ddry halt" on the 24th August 1600 On St John's Day Decem ber 27 1728 the Grand Lodge granted a dispensation to open a new Lodge in Bengal to George Poinfret who "first introduced Masonry into the English Settlement in India " A year later Captain Rulph Faiwinter (or Far Winter) was appointed Provinced Grand

Compare una	with the following -	I nglish	Craft	
Prov. Grand I odge Kent		Lodges	70	
	Lancashire La tern Disn		121	
**	Western		135	
~	Yorkshire West Riding		8,	
	Cheshire	•	85 66	
	Devonshire		50	
•	I sex	•	56 6	
,	Hants and Isle of Wight		~ t	
· ·	Sus cx	,	31	
,	Surrey		19	
,,	Fransyaal	11	37	
••	Quantind	• •	62	

The P G I of Oxfordshire his 1. lodge Cimbridgeshire 7 Cornwall 30 Gleucestershire 56, Shropshire 12, Nottinghim 20 Milta 7, and Gibraltar 1
The 1st Prov G Waster of Beng al was appointed in 1728 I he only older provincial appointments are South Wales (1726) North Wales (1726) Cheshire 1725—Masonic Calendar, 1906

Master " for East India in Bengal" The first Lodge founded in Calcutta which has a name known to history, was Lodge East India Arms 1730 The first Lodge in Midris known to history was established in 1752 and became extinct in 1790—the appointment of a Provincial Grand Master for Madras goes back to 1767 (or perhaps 1768) On Maich 24th, 1758, the Grand I edge issued a warrant for a I odge at Bombay und in 1764 James Tod (or Todd) was appointed first Provinc al Grand Master In 1813 the poneer Bombas Lodge was crused from the 1st of lodges and but for the visit of trivelling military lodges. Masonry seems to have been at a standstill until the formation of a Whitery Lodge Benevolent at Kaira in 1822 lodge in 1824 removed to Poona, and, later on, to Bom bix it wis erised in 1862. Between 1822 and 1840 no less than ten lodges were warranted in the Bombay Presidency but of these one only, Orion in the West, No 415 E C (established in 1833), is in existence at the present day. The first District Grand Master of Buima was Col A J Greenlaw appointed in 1868, in the same year that Col Charles McW Mercer was appointed first Proxincial Grand Master of the Punjab The District Grand Lodge of the Punjab was formed by division from that of Bengal in 1866

I uly in 1838, a Provincial Grand I odge under the Scottish Jurisdiction was constituted for the Western Provinces of British India Dr James (the Chevalier) Burnes was its first Grand Master and his brother, Alexander Burnes mundered at Kabul in 1842, was one of the Grand Wardens Under the bullrant rule of James Burnes Scottish Masonry was in the ascendant through out Western India, and until 1848 English Masonry was practically in abevance in the Bombay Presidency It wis not til 1861 that Rt Wor Bro James Tod (uppointed in 1764) was given a successor in Rt Wor Bio George Laylor Previous to 1848 Masonry under the Scotch Constitution had no footing in Calcutta Travelling military lodges with Irish-and sometimes with both Jushand English Constitutions—have wandered ill through India but in 1905 Wor Bio P C Dutt, "the first Hindu to be made a Muster Mason," gave a permanent home to Irish Masonry in lodge The Duke of 1bercorn, over which he ruled as first Worshipful Master Wor Bio Duttisalso the first First Principal of a Cilcutta Royal Aich Chapter under the Irish Constitution

The roll of Anglo Indian Masons is replete with his torical names, The Marquess of Hastings, Governor General of India, 1813—1822, held the unique appointment of "Acting Grand Master for all India" Lord Dalhousie, Governor General, 1848-1856, was Patron of the Craft Scotch Freemasonry in Bombay has enjoyed the strong and inspiring rule of a succession of its Gov

faith, in the forty-eighth year of the Christian era taith, in the forty-eighth year of the Unistantera both The school was self-supporting and comprised both boys' and girls' departments, and instructions were boys' and girls' departments, and instructions were given in the English and Armenian languages given in the English and American languages in is on record that the education imparted was in no wise inferior to that obtainable in any of the existing schools of the period, but it did not, apparexisting schools of the period, but it did not, apparently find favour with those for whose benefit it was enuy mu ravour with those for whose benefit was intended, for the school closed its doors after an extended, for the school closed its doors after an extended, intended, for the school closed its doors after an ex-istence of only six years, having been but indifferently supported by the Armenian community

The principal Armenian educational establishment in Calcutta at the present time is the Armenian College and Philanthropic Academy, which was established in Some years before that, the idea of a national academy for the education of the Armenian youth had academy for the education of the Armenian youth nad been conceived by Mr. Astwadatoor Mooradkon, who been conceived by AIT ASTWAGATOOF MOOTAGEON, WHO left a donation of Rs 8,000, by will dated 30th July, lett a donarion of RS 0,000, by will dated 30th July, for aiding the establishment of such an institution. This sum formed the nucleus of the fund subsetion. don this sum formed the nucleus of the finite subscriptions among the Armenian quently raised by subscriptions among the Armenian quently raised by subscriptions among the Armenrin community, with which the College was started A community, with winch the Conege was started. A small Armenian institution, which had been in existsman Armenian institution, which had been in existence from 1798, was amalgamated with the new college in 1825. The founder of this smaller school, Mr. Arrain 1825 The founder of this smaller school, Mr Arration 1825 The founder of this smaller school, Mr Arration of the founder of this smaller school, Mr Arration 1825 The founder of this smaller school, Mr Arration 1825 The founder of this smaller school, Mr Arration 1825 The founder of this smaller school, Mr Arration 1825 The founder of this smaller school, Mr Arration 1825 The founder of this smaller school, Mr Arration 1825 The founder of this smaller school, Mr Arration 1825 The founder of this smaller school, Mr Arration 1825 The founder of this smaller school, Mr Arration 1825 The founder of this smaller school, Mr Arration 1825 The founder of this smaller school, Mr Arration 1825 The founder of this smaller school, Mr Arration 1825 The founder of this smaller school, Mr Arration 1825 The founder of this smaller school 1825 The f He died in 1833, and his grave is in the burial-ground of St Nazareth, to which he bequeathed the sum of Rs 10,000 for the relief of the Poor queathed the sum of RS 10,000 for the rener of the Pool His good deeds are recorded on a tablet on the Wall of rns good deeds are recorded on a rablet on the wan of the church, while tributes to the memory of two other Armenian gentlemen interested in the advancement Armeman genuemen mieresieu in the auvancement of education are inscribed on tablets within the College sakan varuen, the latter of whom was manny matter mental in raising the subscriptions with which the Ar-

In addition to the Holy Church of Nazareth, there in audition to the riory Church of Nazateth, there is an Armenian Chapel which was built in 1907, with menian College was started money subscribed by a few wealthy Armenian gentle-This Chapel, intended mainly for mortuary purposes, but in which other services are also conducted, purposes, our manner outer services are also continued as situated away to the eastward of the Lower Circular is situated away to the eastward of the Lower formation. Road Burial ground, on a plot of what was formerly busts land Adjacent is the present Armenian buriala plot of land granted to the Armenian ground a prot of fame granted to the Armenan community by the Calcutta Burial Board, on the same terms as regards fees as plots granted to members of other communities It was at first proposed to erect the new Chapel within these limits, but as the available the new Chaper within these minus, out as the available space is small, and likely to be soon fully occupied, it was decided to purchase outright the adjoining plot of land for the erection of the Chapel, and to leave the land granted by the Burial Board for its original The Chapel is a neat and compact little purpose the chaper is a near and compact fittee editice, surrounded with a wall and with small grounds,

In Southern India Armenians appear to have first settled permanently at Madras in 1666 the latter part of the Seventeenth and the whole nicely laid out of the Eighteenth Centuries, they attained great commercial success The trade of the Carnatic was practical success. tically in their hands, and they had extensive dealings with Europe and the East The first Armenian Church

was built in Madras in 1712, and it is said to have was punt in magras in 1712, and it is said to have been one of the few magnificent edifices on the British Military Esplanade at that time The British. authorities, however, objected to the location of so lofty a building in the immediate vicinity of the Fort, Esplanade at that time The Armenian Church which is and it was vacaced the friends of the Hole Victory Action to the Hole Victo now in use was built in 1772 It is situated in Affineman Street, and is dedicated to the Holy Virgin Vary As and it was vacated in the case of Calcutta, the site selected for the church at Madras was the old Armenian burying ground, originat Madras was the old Armenian burying ground, originally the property of the famous Agar Shameer, ally the property of the famous Agar Shameer, and the second three in 1765 Shameer's whose wife had been buried there in 1765 Shameer's built to her memory, and still known as Shameer's built to her memory, and still known as also a Room, forms part of the church by Armeniane who church at Maculmetan arected by Armeniane who church at Masulipatam erected by Armenians who migrated from Madras about the year 1781

When Dacca was one of the great commercial centres of Bengal, at the beginning of the Lightcenth centres of Dengal, at the beginning of the Lighteenth a Contury, the Armenians formed a colony there, a small chapel serving as their place of worship, and sman chaper serving as their place of worship, and hive or six miles from Dacca is the old Armenian burying ground, in which the oldest tombstone bears ourying ground, in which the oldest tomostone pears date 1714. The present Armenian Church at Dacca, called the Church of the Holy Resurrection, was built called the Church being mat from subscriptions. In 1788, the cost being mat from subscriptions. cauch the Church of the rioly Resurrection, was built in 1781, the cost being met from subscriptions by four wealthy Armenians, Michael Sarkies, Astwasator four wealthy Armenians, Michael Sarkies, Astwasator four wealthy Armenians, and Margar Pogoea The Caverly Reports and Margar Pogoea Gavork, Khojah Petrus, and Margar Pogose Site was the gift of Agah Catchick Minas, and the belfry was added some time after the church had been built, by Sarkies Johanness Sarkies

In Bombay, the Armenians first formed a commercial settlement about the middle of the Eighteenth mercial settlement about the midule of the Eighteenth Century, and in 1796 the present Armenian Church m Medows Street was erected Here an Armenian priest is still maintained, to minister to the wants of his priest is sum maintained, to minister to the waits of his small congregation, and those of the native Christians sman congregation, and those of the native Christians who have embraced the Christian faith in the wno nave embraced the Ohristian faith in the Armenian Apostolic Church The church was erected by Jacob Petrus, a wealthy Armenian merchant of Bombay, at a time when there was not even an Armenian burying ground in the city, and when the Armenians ourying ground in the city, and when the Armemans were obliged to bury their dead in their private compounds, without any religious ceremony compounds, without any rengious ceremony still in the tombstones of these private graves are still in existence, the oldest bearing the date of the year 1767. The existing Armenian churches at Penang, Sin

gapore, Batavia and Rangoon were built in the order gapore, Dalayia and Nangoon Well built in the Jumes and 1862, respectively named, in 1822, 1835, 1854, and 1862, respectively All the Armenian churches in India, Burma, and

Java come under the jurisdiction of the Diocesan Archbishop, who has his seat at the All-Saviour's Archbishop, who has his seat at the All-Saviour's Amenaperkitch Vank) of Julpha, Amenaperkitch Vank Archbishop Ispahan, Persia The name of the present Archbishop The name of the name of the name of the present Archbishop The name of the nam For spiritual functions in the different Armenian churches of India and Java, the Archbishop sends out priests from Julpha, whose term of office is generally fixed for three years, at the expiration of their productions of the expiration the expiration of which they are relieved from their duties by other priests from Julpha The right of control in ecclesiastical matters is vested in the Diocesan Archbishop, but final authority is exercised by the Supreme Head of the Armenian Church, who us the Supreme ried of the Armenians, and whose Holy is styled Catholicos of all Armenians, and whose Holy See is at Etchmiadzine

accorded to the foundation of these lodges, either by the official Masonic Calendar or by the lodges them selves, cannot be relied upon. The records of the Provincial Grand Lodge of Bengal do not go back beyond 1860, although much of their contents are preserved in Firminger's Early History of Friemasoniy in Bengal.

The following is a list of the eight oldest existing

Indian Lodges

Star in the East, 67, Calcutta—Founded April 16th, 1740 First placed on the Engraved Lists of G Lodge in 1750, when it took the place of the recently erased Lodge Three Tuns No 185 In 1756 it appears as "the Third Lodge, Calcutta, in the East Indies" In 1773 it is "the First Lodge of Bengal". The Lodge was in abevance for some time previous to 1785 and again from 1800 to 1812

2 Industry with Perseverance, 109, Calcutta—
Founded February 7th, 1761 Appears in
Engraved L st in 1769 as "No 245 The
Eighth, Lodge, Calcutta" This Lodge alone
maintained its work during the Carnatic
War, but was in abeyance from 1804

to 1812

3 Humility with Fortitude, 229, Calcutta—
Founded in the Bengal Artillery, 1773 In
abeyance 1781 1785 Second to the Atholl
Consultation in 1798 Reunited in 1813

Continuous working since 1785

Perject Unanimity, 150, Madris—The Masonic Calendar gives the year 1765 as that of the foundation of this Lodge but this is probably mere guesswerk. Malden shows that this Lodge was "the result of the union which took place in 1780 between the Atholl Provincial Grand Authorities under Col Joseph Moorhouse and Brigadier-General Mathew Horne and his able Lieutenant Dr. Teience Galagan." Lodge Perfect Unanimity can produce from its records an absolutely unbroken chain of evidence to show that from 1786 to the present date, there has been hardly a month

without a regular meeting

Marine, 232, and Anchor and Hope, 234, Calcutta—It may be conjectured that these two lodges represent two stages of secession in a single lodge, from the "Regular" or "Modern" to the "Atholl" or "Ancient" Grand Lodge In 1788 the 3rd Brigade of the Bengal Army came to Calcutta, bringing with them a Lodge said to have been constituted at Murshidabad, in 1773 When the Brigade left Calcutta, its civilian initiates petitioned to be warranted as a new lodge this was done, and the lodge was named St George in the East Later on, finding their members were mainly seafaring men, the lodge changed its name to that of Lodge The Anchor and Hope In 1801 some of the members seceded

and beca ne the Atholl Lodge Manne, later on the remnant seceded and became the Atholl Anchor and Hope Manne now works under a warrant of confirmation of its Atholl Warrant, while Anchor and Hope works under a warrant of confirmation of the Military Lodge, which was attached to the Third Bigade Manne has had two short periods of suspended working Anchor and Hope a lengthy one The latter lodge is to day composed of natures.

composed of natives

True Friendship, 218, Calcutta—The Military Lodge, whose visits led to the foundation of Ihe Anchor and Hope in 1788, was No 12 of Bengal and was probably founded in 1778, but into its hands had come a Waiiant of the Tenth Lodge of Bengal at Murshidabad. The Third Brigade returned to Calcutta in 1793, and brought its lodge with it. The lodge, however, became extinct in 1798 "by the dispersion of its members". In 1798 a new True Triendship was waiianted by the Atholl Grand Lodge, and, from that day to this, has worked continuously

Universal Charity, 273—The Masonic Calendar gives 1789 as the date of foundation The Lodge was founded in 1811 as an offshoot of the Carnatic Military Lodge, but it was fortunate in obtaining the Warrant of Lodge Strength and Beauty, which had penished in the Vellore Mutiny The Lodge

was in abeyance from 1830 to 1845

Rock, 260, Trichinopoly—The Masonic Calendar gives 1786 as the date of foundation The Lodge was locally wairanted on December 27th, 1816, but in 1820 was given the piecedence and antiquity of an older lodge,

which had become extinct

In the above table some reference has been made to the division of Masons into "Atholls" or "Ancients" and "Regulars" or "Moderns" It would not be in place, in an article on Masoniy in India, to discuss his torical questions which belong to the universal history of the Ciaft, but a word or two of explanation is neces sary to render what has been said intelligible to the Mi Saddlei, the librarian of the United Grand Lodge of England, writes on this subject -"The Atholls were Irish Masons, who, in consequence of the doors of the English Lodges being closed against them, had assembled in Lodges of their own formation, perfectly independent of any authority but that of their own selection, until they felt themselves strong enough, and circumstances being favourable, to organize a Grand Lodge, which they did on the 27th December 1753, having regularly assembled as a governing body under the denomination of a Grand Committee since the 17th July, 1751" A marked feature of Atholl Masonry was its patronage of the "higher degrees," and when, in 1813, the lival Gland Lodges united, the definite recognition of the Royal Arch degree, as the completion of the Master Mason's degree, represented the triumph of the Atholl ideal From the year 1801 to the year 1812, Masonry in Calcutta was either Atholl or nil, and although the Masons in Madras by their re union antici

ernors-Lords Sandhurst (also District Grand Master of the EC), Northcote, and Lamington Among the Provincial Grand Masters of Madras we find the record of one who arrived in this country as a private soldier in the Company's Army, and who left it as Chief Justice of Bombay (Sir Herbeit Compton), a career which can only be approached by that of John Blessington Roberts, who rose from the ranks of the police to the position of Chief Presidency Magistrate of Calcutta, from Tyler to District Grand Master of Bengal Among the soldiers, we find the names of the Duke of Wellington, Gillespie, Grant Keir Roberts, Lockhart, Kitchener, and Macdonald In 1775 Lodge

No 3 of Madras initiated the eldest son of the then formidable Nawab of the 1907 Carnatic ın Lodge Concordia in Calcutta, initiated the Amir of Afghanistan Among the Governors of Madras will not be forgotten the name of one keen Mason, Lord Ampthill, who acted as Viceroy during the absence from India of Lord Curzon The High Court of Calcutta has given as a ruler of the District of Bengal Sir H T Prinsep, and that of Allahabad gives Ben gal its present District Master, Sır Grand W R Burkitt, who has succeeded Sır J Digges La Touche, the late Lieutenant-Governor of the United Provinces, in this high office The Lieutenantpresent Governor of Bengal, Sir Andrew Fraser, rules over a Calcutta Lodge The present District Grand Master of Bombay is the

Chief Justice of the High Court of that city should not be forgotten that Holwell, the hero of the Black Hole tragedy, was a member of the Provincial Grand Lodge of Bengal

To the student of Aiglo Indian instory, the study

of the cll Masonic corporations must be of the deepest interest, for, the Christian Church apart, they are the oldest of European social institutions in India The story of I odge Star in the East although broken, goes back to the year 1740 the story of another Calcutta lodge, Humility with Fortitude, No 229 F C, broken for only three years during the great Carnatic War, is that of a Calcutta society which for nearly one hundred years

has, without a break, maintained a vigorous existence and spread its tenets and principles broadcast throughout the growing Empire Lodge Industry with Perseverance No 109, is par excellence the lodge of the men whose undertakings have proved to folks at home that the toil, of the Indian Empire are, from a business point of view, well worth the while It is surely most instructive to watch the foul days as well as the fair When the Madras lodges are on their beam ends, it is because the struggle with the French for the mastery of India leaves little time for the abstract study of the squares or compass when Humility with Fortitude cannot meet in 1784 it is because as a lodge attached to

the Bengal Artillery, it has sent its good

men and true to the

great conflict which

is to decide whether

or no there is to be

such a thing as British

rule in India When

Misonry flags in

Madras, disappears in Bombay, and in Cal

cutta is represented

by what some, un masonically, call "art san lodges," it

is because Napoleon

has challenged the

access of English ships



MARQUESS OF HASTINGS

to the Eastern Seasand men's minds are full of anxieties or distressed by actual rum Insurance fie ghts run high for English cargoes, and cheap for those flour, shing Danes at Serampore nowonder there is but little time or money for gathering social Throughout India, during the struggle with Napoleon, the "class lodges" fall into abeyance, while the humbler lodges, which have received

their traditions from military lodges with an experience of Continental Masonry in Europe, survive, as adherents to the Ancient or Atholl Constitution

In this place it is only poss ble to take what is called a "b.rd's-eye view" For the "worm's-eye view" the reader should study C H Malden 4 History of Free masony on the Coast of Coromandel Madras, 1895 W K Firminger The Early History of Freemasonry in Bengal Calcutta 1906 (Thacker, Spink & Co) Articles in the Indian Freemason, 1900 1907 by P C Dutt and I M Shields For the story of the oldest Bengal Lodges see an article which appeared in Ais Quatuor Coronatorum Vol XVIII, 1905 The dates

Irrigation.

INTRODUCTORY

THERE are very few countries in the vorld where the natural supply of water, whether by rainfall or by the overflow of rivers is sufficient or regular enough to enable crops to be raised to the best advantage, and v here therefore, irrigation is not practised to supplement In most tropical countries this is especially the case and India, as will be seen, owing to the diversity of climates and conditions, offers a field for every variety of artificial expedients both for regulating and for supplementing the moisture drawn up from the ser and deposited on the land These artificial aids can there be studied both in the crudest forms, through all their stages up to the latest devices of engineering talent and experience

The vater required is either rused from out of channels, streams and rivers or is led on to the lover lying lands by tapping or damming waters as a hether perennial as in rivers, or temporary, as in vatersheds

The modes of raising water for irrigation purposes in India are as follows -The basket scoop whereby two (and sometimes four) men can raise water up to four feet at the outside. The scoop is a shalloy fourcornered article, to the corners of which ropes are attached, by a syinging motion the men at the corners dip it into the lover vater and deliver its contents into the higher channel. Take all indigenous methods this involves a great vaste of energy as a large proportion of the vater falls out of the scoop during the process of raising. By these means it is estimated that about 2,000 feet of vater can be raised one foot in an hour, at the outside at a cost of 7 annas per acre of crop With the "doon" vater can be rused 3 feet

is used in Bengal, and is a trough fixed in the centre, about which it oscillates. It is vorked by a man, standing on a platform in the stream, by means of a long horizontal pole, pivoting on a standard, the long or viater and of vihich is attached to the trough by a rope and the short end of which has a veight attached sufficiently heavy to pull up the trough and its contents, the cost per acre of crop is estimated it about

121 annus with a 3-foot lift
The "lat" as it is called in Upper India ("picottah" being its name in the South) is similar to the well-known "shaloof" of Egypt, and is worked like the "doon," but a bucket takes the place of the trough and the man working it stands on the edge of a high bank and pulls the bucket down, swinging it inland when it has been raised by the counterbalance weight on the short or land end of the long pole A plunk is sometimes substituted for the pole on which the worker stands, as on a see-saw. Two men are sometimes employed on this contrivance and the maximum lift is 15 feet, at which two men will lift 5,760 feet in

an hour and one man 3,300 cubic feet, at an estimated

cost of Rs 13 per acre of crop
A "moth" is v orked by animal pover This is a leather bag holding from 30 to 40 gallons, attached to one end of a long rope which is led over a pulley, and to the other end of v hich the draught animals are yoked They pull up the bag by walking down an incline When they reach the bottom of this and the bag reaches the top of the vell in v hich it v orks, the driver unhitches the rope, while another man empties the bag into the distributing channel—the weight of the empty bag drags the rope up this incline. In some cases the animals walk backwards with the rope, and the bag discharges itself by a simple automatic device. Some-times two "moths" are used in one well. Two bullocks and one man will thus raise 7,920 cubic feet an hour from a depth of 15 feet and at a cost of Rs 9 per acre of crop Moths' are sometimes used at much greater depths, but the next device is generally put up for this v ork

The Persian wheel or "noriah" is composed of an endless band to which water pots are attached lover loop dips into the vater in the well, the upper loop goes round a large wooden pulley, which is revolved by rough gerring, also of wood, worked by inimals valking round in a circle. As the full pots come down over the pulley, they discharge into a trough leading to the distributing channel. All this wooden apparatus, which is seldom if ever greased, creaks fearfully. To this noise the owner does not object is it informs him whether the wheel is working, for the boy driver, who sits at the end of the beam to which the dringht inimals are yoked, is very apt to drop off to sleep, and no wonder, whereupon the bullocks or camel, as the case may be, also take a rest

These wheels are used over wells generally 40 feet deep, but sometimes as much as 60 feet in depth, and also with two chains of buckets. A single wheel is estimated to raise about 69 cubic feet of water per hour from a depth of 50 feet and a double wheel 190 cubic feet at less cost than a double "moth" Improved "norralis" and even some oil-driven and wind-driven pumps have been put up in places, but they cannot be said to have taken on In many instances the working of wells by animal power costs the owner little or nothing as he employs his animals it this work when there is nothing else for them to do

The average cost of irrigation by the above means is put down at Rs 3-8 per acre of crop in India as a whole, exclusive of the expenditure on well-sinking

Wells are divided into three classes —First, kutcha or unlined, these last from one to two years and, when the sides fall in, a new one is dug, the depth varies

pated the re union of the two English Grand Lodges by twenty eight years, they continued, despite their allegiance to the regular Grand Lodge, to "work Atholl".

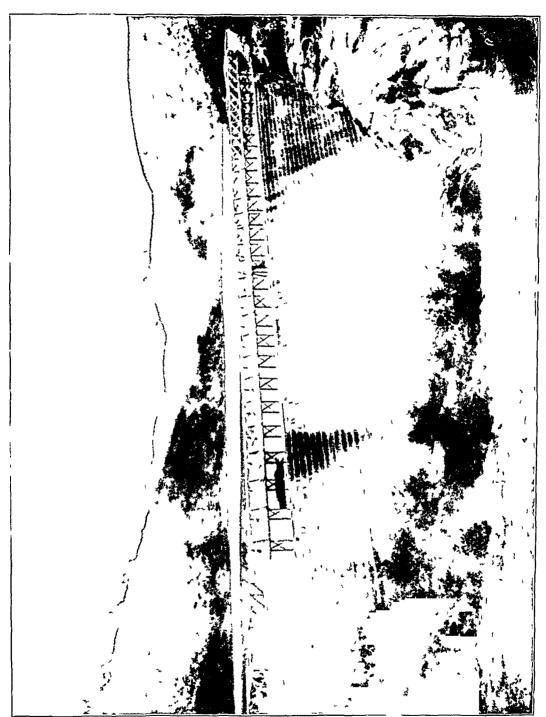
In India the Craft has had to face the problem of

the legitimacy of the admission of non Christians to the craft degrees. It would be understating the facts to say that Masonry is essentially monotheistic also committed to the belief that there is such a thing as "a Volume of the Sacred Law," and that this volume contains a unique revelation of the Almighty In accordance with the English love of vesting moral responsibility in the man who enters upon obligations rather than in the obligator, British Indian Masonry has in the purely Craft degrees opened wide its threshhold From the religious point of view, the man who

becomes a Mason commits himself to Masonry, and not Masonry to its initiates If, for instance, Hinduism is inconsistent with Masonry, it remains for the Hindu to ask himself how far in becoming a Mason he has, or has not, definitely adopted a new moral and intellectual position Masons do not merely believe in a god, but in the God, and the very first step in Masonry is a tacit profes sion of belief and moral observance to Him alone who has inspired, not many sacred laws, but a Unique Volume

In Bombay the Craft has for some time past rejoiced in the possession of a fine Masonic Hall In Calcutta the brethren of the mystic tie have at last carried out a design, which for nearly one hundred years has been under contemplation, but the ideal temple has yet to be built to grace the City of Palaces

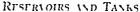




DAM CORDITE FACTORY POWER PLANT NILGIRIS

according to the soil, and they are only large enough for one man to work in, the appliances for lovering the sinker and for raising the earth are of the judest and the chant of the digger when i big hoeful has to be raised is very wend, especially as it appears to come from the bowels of the earth. These kutcha wells cost but a few rupees and serve a small extent.

overflow from rivers may also be placed. Petty canals are still constructed and maintained by private enterprise to a considerable extent, they are sometimes assisted by local funds. No less than 800,000 acres are arrigated from hill streams and phils.



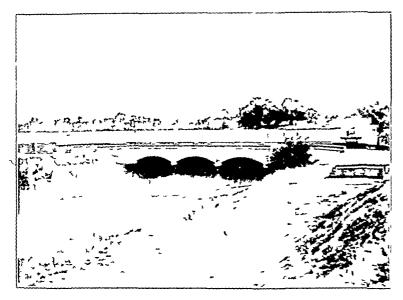
Natural reservoirs or julis are formed in lov lands during the rains and are found in the beds of rivers in the dry scason, where they are used to raise crops on the churs or islands left by the receding water. It is in these places that the simplest lifts are found so useful. Fanks and reservoirs suffer greatly from exaporation and from loss of water by absorption and leakage.

PERFNIM CAMIS

In comparatively narroy valleys tinks vere formed by throwing bunds or banks across them at intervals "anicuts" or weirs vere also thrown across rivers and streams ranging from the smallest hill streams to some of the largest deltaic rivers serving mostly class two or perennal watercourses. In the hills the vater was led along terraces formed all over the hill sides, and in the plains the impounded water vas led along artificial watercourses and canals. As these latter however, were not scientifically de-

signed, they were costly to maintain either by reason of the erosion of their banks or by the silting up of the beds

This class of work cannot be considered successful unless the veir or anicut impounds sufficient water for irrigating purposes even in the driest seasons and when the feeder streams are at their lowest



SIDHNU WEIF, RIVER RAVE FROM THE MORANCA CANAL HEAD

of ground Second kutcha-pucka wells are made larger and are lined either with wattles, brushwood or bricks and stones in mud mortar. Third, pucka wells are lined with brick or stone-work in lime mortar. these cost an average from 300 to 600 rupees and irrigate from 2 to as much as 20 acres. Sometimes these pucka wells are very large indeed—as for instance—the celebrated one

at the Kootub near Agra—from the water level of which a ramp or incline reaches up to the surface for the watering of cattle, etc., and they can hardly be classed among irrigation works though sometimes used as such. All these works are mostly due to private enterprise. There is no doubt that the experience gained in well sinking under varying conditions, all over India proved of the greatest assistance to the designers and constructors of the various modern works of art which have been erected since the land fell under British jule and of which wells and other cylinders form so large a part

Other modes of niightion practised from time immemorial in India can also be grouped into three classes viz, First, reservoirs natural or impounded Second, Perennial watercourses and canals and, Third, those called "Inundation" canals that only work while streams are in flood, in which class the



INUNDATION CANALS

These were constructed with a similar want of technical knowledge and suffered from the same defects as the old so-called perennial works This class of canal depends entirely for its supply of water on the feeder river or stream rising to a height sufficient to serve it efficiently The inlets from the feeders are often partly choked with several feet of silt during the floods and the water ceases to flow at a higher level Cultivators have to adapt themselves to the seasons when the canals are at work and generally have no difficulty in doing this As for the natural overflow from rivers, this has been one of the most difficult problems and one which even to this day has not been satisfactorily solved

The revenue received by the State from irrigation works depends on the amount of water supplied, on the kind of crops, on the area actually or ordinarily cultivated. When the land revenue was taken in kind, the State's share increased with the irrigation and therefore, rulers and farmers of land constructed or helped to construct irrigation works. Under British rule payments are made in cash and assessments are fixed with reference to average produce, irrigated lands ("wet") being assessed higher than the others. The difference between the "wet" and the "dry" rate represents the true revenue due to irrigation works. The charge for irrigation averages about if per cent of the crop value and the average working expenses per acre are Re I-I

GENERAL

The statistics given are for the year 1904-05 (the latest available) and up to March 31st 1905, they are taken from the *Review of Irrigation* by L M Jacob Esq, csi, Secretary to the Government of India for Irrigation, Roads and Buildings, and from the "Note" by R N Burn, Esq, Accountant-General, Public Works Department

The average rainfall in India is 42 inches a year, and only one-fifth of the crops grown are irrigated, covering 44 million acres. Of these, 30 per cent are served by wells and yield one-third of the total outturn

The State encourages all these private enterprises by loans and by liberal assessments It also maintains many of the works which were formally constructed by native chiefs and which were fast disappearing gation by wells being comparatively costly it cannot be forced on the cultivators and the encouragement takes the forms of takavi or temporary exemption from land revenue bearing 61 per cent interest in general, or where it is less, repayment is made by instalments ranging from 7 to 30 years For instance in the ten years ended 1901, Government had advanced Rs 348 lakhs in the form of loans and Rs 277 lakhs for specific improvements Ryots who dig wells and make other improvements are exempted from enhanced assessments for specific periods long enough to enable the ryots to recoup themselves for their capital outlay

MINOR REVENUE WORKS

The works taken over as mentioned above are included in the so-called "Minor" works for which

separate capital accounts are not kept, either because the works are too small, or because they have not been constructed by the British Government, which has simply undertaken their improvement and mainten-For such works only revenue accounts are maintained as the cost of their construction cannot now be ascertained, they are credited with a share of the land revenue depending on their maintenance, and are debited with all expenditure incurred on construction, extension, improvement, and maintenance The area irrigated by these was 2,075,135 acres in The revenue receipts were over a crore of rupees, and the charges amounted to nearly Rs 71 lakhs the net receipts being Rs 37,39,786 or nearly 35 per cent of the gross receipts The total gain to end of 1904-05 (including indirect charges) was over 8½ crores of rupees

Another similar class of works are some 28 000 tanks and 6,000 irrigation channels the improvements and repairs of which are executed by the Public Works Department, or, in the case of smaller works, by civil officers. The expenditure during 1904-05 amounted to over Rs 27 lakhs of which about one-fifth was spent by the civil officers. The areas charged as irrigated by these small works aggregate about 3 million acres. The revenue derived therefrom varies considerably according to the character of the season, whether favourable, or otherwise, for instance, in 1903-04 it was over Rs 75 and in 1905-06 under Rs 65 lakhs.

This includes the description of works constructed mainly by native agency and now maintained by the Government

The so-called Major and Minor works are those for which capital and revenue accounts are kept and are divided into three classes 1st, Major Productive works 2nd, Major Protective works and 3rd, Minor (or Minor Capital) works. The most important irrigation works in India are those classed as Productive works, or works the capital cost of which has been wholly or mainly provided from loan funds in the expectation that they would prove directly remuner ative, and that the net revenue derived from them would fully cover all charges for interest within a reasonable time after their completion

MAJOR PRODUCTIVE WORKS

There are 41 of these irrigating about 12,617 000 this area is gradually increasing except where hereafter noted The total outlay on these to 1904-05 was close on 30 crores, exclusive of Rs 10 92,150 on account of outlay on surveys and in investigations of Irrigation Projects and on special Establishments employed on the preparation of famine relief programme The percentage of net revenue on capital outlay was 7 60 per cent in the same year being the highest on record after a steady advance for many years which advance is sure to continue The total net revenue on these, from their inception to 31st March, 1905 was over 174 crores of rupees, and this exceeded the accumulated interest by over 141 crores The revenue due to them is given whether of rupees received directly in the form of water rates and miscellaneous receipts, or indirectly on account of enhancements of land revenue due to irrigation



commitments of the Government, or that there should be any difficulty whatever in rusing sufficient sums at all times for such remunerative work, yielding such splendid results in the way of increased cultivation

The total area ungated by all the works in 1001-05 amounted to 20,107,510 ieres of over 322 lakks bigals of 31,418 square miles (rather more than the area of all Scotland), the total length of waterways, including distributaries, being 42,376 for the first three classes of work the net revenue of which wis Rs 39,342,927 or £2,622,862. Of course it is no good growing more food stuff than can be consumed on the spot unless a profitable market can be found for the surplus It was at one time considered that water carriage would solve the problem, but it was soon found that, with very few exceptions, navigable canals could not be constructed to any advantage, owing to the necessary speed of the current to prevent silt and also to the retural cost

money to pay for tood, however moderate in pince it may be. Hence the need for relief works, whereby they may earn sufficient to tide them over the bad times.

For many years past the gross water rates have increased considerably, while the cost of revenue management and the working expenses has decreased, with a material increase in the net revenue, which increase there is every reason to believe will continue. As it is, the water costs the people one-third of the increased value of their crops in ordinary years.

Again, famines have been estimated to increase the death-rate by 10 per cent. The 1870-78 famine is

stated to have cost over 16,79 laklis

The duties of Engineers of the Irrigation Branch of the Public Works Department are many and varied they are responsible for the proper assessment of the Irrigation Revenues, for the collection of other revenue



TAKING VPIOCITIES, THOMASON CIVIL INCINIERRING COLLECT, ROORKIE

of transportation, and, as in England and elsewhere, it was soon discovered that except under exceptional circumstances nothing could compete with effective carriage by railway. Further, as railways were also found to be profitable investments, even without allowing them to charge the minimum paying rates which would add so enormously to their earning power, there was no reason in the world, except the financial policy of the Government, why may also works and railways should not have been executed as fast as Indom could be found for them and materials could be produced.

Even as it is, and in spite of the want of sufficient feeder roads and a continued and continuing short ige of rolling stock, the combination of magation and radiuty has so far advanced that no famine need now occur in India, for want of food stuffs at reasonable prices, the only difficulty being that in bad years, the cultivators on non-irrigable lands do not possess sufficient

earned by the cands, for repairs, for suggesting improvements for the regulation and distribution of canal water, and in some provinces, for all public works except rulways, all this in addition to the designing and construction of all new works whether in the shape of additions or reconstructions.

The pry of officials is not princely—the Patrol receives from Rs 5 to Rs 10, and deal with from 1,500 to 3,000 acres, the Americs get from Rs 10 to Rs 25 for 7,000 to 10,000 acres, the Zilladais, for from Rs 50 to Rs 100, overlook from 30,000 to 54,000 acres, and Deputy Collectors, with from Rs 200 to Rs 300, have 80,000 to 120,000 acres under their charge

friigation recounts the kept separately for the following provinces, mz—Punjab, United Provinces of Agra and Oudh, Madras, Bombay, Sind, Bombay, Decean and Gujerat, Bengal, Burma, and the Native States in the Punjab, which will now be noticed in that order

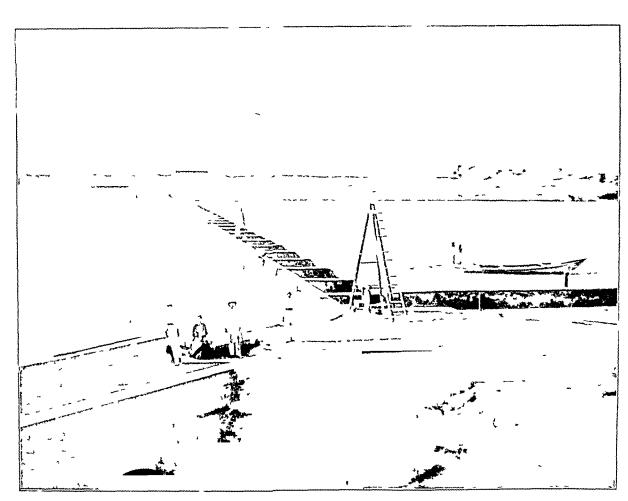
Major Protective works are those which have been sanctioned in consideration of their value as famine protective works but without any expectation of their becoming directly remunerative. The cost of their construction has been met from the Famine Grant.

There are at present six of these works in operation irrigating nearly 434,000 acres. The total capital outlay on these to 1904-05 was over 24 crores. The area irrigated has gradually increased during the last nine years.

The total direct loss on these works to 31st March 1905 was Rs 2,32 60 953

MINOR CAPITAL WORKS

I he third class are the so-called Minor vorls for which Capital and Revenue accounts ire kept, and all expenditure incurred on them, both in construction and in development, is met from revenue. Of the larger or more important worls there are 81, including those under construction, irrigiting nearly 2 million acres, on which the capital outlay to the end of 1904-05 had been over Rs 3861 lakhs. The net revenue in the same year yielded 7.27 per cent, on the capital outlay, and the rate of revenue assessed per acre via Rs. 2.8 or

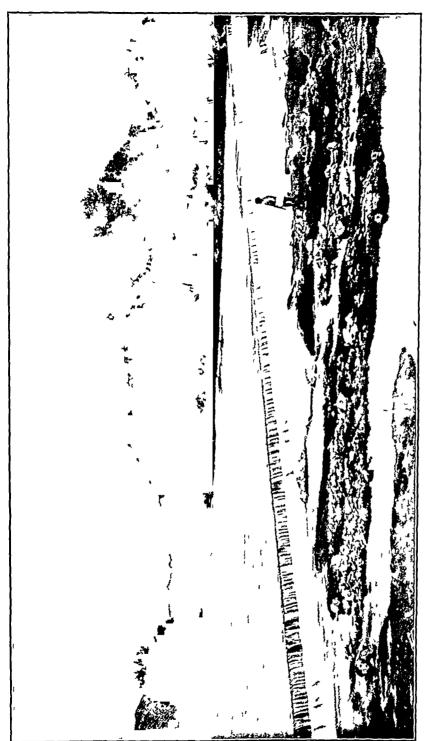


SIDHN'I WEIR, RIVER RAVI NEEDLES IN POSITION

The area irrigated by the last two classes of works is, therefore well over 13 million acres, or 20 400 square miles, or 21 crore bighas. The estimated value of the crops was over 36½ crores, the average value of the crops per acre was Rs 28 or about 37½s, the average rate of revenue assessed per acre was Rs 36 or 57½d, the working expenses rate per acre irrigated were Rs 12 or 192d, and the percentage of working expenses on gross revenue was 31½

44 8d, on the smaller works the capital outlay during 1904-05 was nearly Rs 17,40,000. The total grin up to 31st March, 1905, was Rs 2,2003,115

Summarising the above data, the capital outlay to end of 1904-05 on the three last named classes was Rs 47,2578,389 or £31505,226, the net revenue during the year amounting to 701 per cent of the capital outlay expended on them Under these circumstances it seems most extraordinary that the sums allocated to this work should depend in any way on the other



MASONRY WEIR ACROSS RIVER ARH --CONNAUGHT TANK HLADWORKS RAJPUTAVA

In the Punjab there are 8 Productive works irrigatin the runjau there are o rioductive works filigated ing 5,281,831 acres with a mileage of 12,201, the capital ing 5,281, the capital ing 5,281, the capital ing 5,281, the capital ing 5,281, ing 5,201,031 acres with a inneage of 12,201, the capital cost of which has been Rs 10,87,88,346,* yielding cost of which has been Ks total net revenue of 12 29 per cent, the total net revenue net revenue of 12 29, per cent. The water charge is dishaving been Rs 8,71,93,900 tinct from the land revenue assessment and is levied unct from the land revenue assessment and is levied this varies with the crops as a water rate on occupiers, only on fields actually grown and is chargeable, only on fields actually having been Rs 8,71,93,900 grown and is chargeable only on fields actually nd is chargeable only on neius accuany
This is subject to revision, of which the Watered This is Subject to revision, or which the Government may take a share and, under the Northern Government may take a snare and, under the morthern India Canal and Drainage Act, 1873, it may, during India Canal and Drainage Act, impose, in addition to the currency of a settlement, impose, in addition to the currency of the curren the occupier's rate, an owner's rate on lands brought under irrigation after the settlement was made, provided such rate does not exceed half the increase provided such rate does not exceed nail the increase The in rental value of the land due to irrigation from in rental value of the land Rs 8-8, of rice maximum sugarcane rate is Rs 3-12 to Rs 4-4, for Rs 3-4 to Rs 7, for wheat Rs 3-12 to Rs 4-10 folder crops Rs 3 to Rs 3-8, the average of all being Rs 2-4

Ks 3-4
The alluvial plains of the Punjab, or land of Five
The alluvial plains of the Himalayan snows,
Rivers, are fed by the melting of the Himalayan snows,
for the local reinfall to but moderate and to circled for the local rainfall is but moderate and is sucked or the local ramian is but moderate and is sucked up by the thirsty soil. The heavy torrents in the hills bring down an enormous amount of detrities, the nus pring down an enormous amount of newwis, the larger and heavier portions of which soon sink to the larger and neavier portions of which soon sink to the bottom, leaving only the smaller and lighter particles bottom, leaving only the smaller and lighter particles as the to be deposited on the beds of the rivers as the to be deposited on over the land during the waters subside, and over the city varies of the The nature of the silt varies greatly—where season the nature of the sur varies greatly running it is deposited by a comparatively quick running it is deposited by a comparatively quick funing stream, it is often composed of sand from decomposed The finer and granite and is infinical to curtivation. The men coat soil-land silt, on the other hand, giving a new coat of fertile soil wherever it is deposited. The flood grante and is inimical to cultivation water deposits most silt on the banks of the sudden water the stream slackens by reason of the sudden expansion of its outlet. of fertile soil wherever it is deposited where the stream slackens by reason of the suduen expansion of its outlet. The consequence is that the expansion of its outlet The consequence is that the whole cross-section of the river rises leaving the whole cross-section of the river rises the lowest "Doab," or two-river-lands between them, the followers part of the country they traverse What follows is, that during some abnormally high flood the main stream burete ite bonts and soul and soul and stream burete ite bonts and soul and s part of the country they traverse that during some approximately migh mood the manustream bursts its banks and seeks an older and lower This see-sawing has been going on from time bed This see-sawing has been going on from time immemorial and accounts for the gradual raising of

all alluvial plains similarly situated

Total net Revenue

canals and distributaries generally lie along the ridges, canais and distributaries on minor watersheds and the distributaries on minor watershed than the canals, being laid out with a smaller bed slope than the rivers, conduct the water out of the valley at the intake on to the higher lands further down, and at times right over one watershed into an adjoining one The Western Junia Canal serves both Imperial and

a small part of Patiala State lands, much of the land is salt or relt, due in some measure to over-irrigation sait or ren, due in some measure to over-ningation. This might be avoided by educating the cultivators, or, This might be avoided by educating the curry arous, of, as the stretches are comparatively as the stretches across them the canals can be taken across them canais can be taken across them. The utility of the Jumna for irrigation was recognised many centuries Jumna for irrigation was Tuglak tapped the right of ago. In 1350 Firoz Shah Tuglak tapped the right of ago. canals can be taken across them ago in 1350 riroz Shan Lugiak capped the light of western bank and constructed a canal 150 miles in western wank and constructed a canal 150 miles in length leading to his lands in Hissar In course of time it silted up Akbar re-opened it and during time it silted up hands in the leading to hand to hand the leading the leading to hand the leading the leading to hand the leading to hand the leading to hand the leading to hand the leading the leading to hand the leading the leading to hand the leading the le Shah Jehan's reign a branch was opened to Delhi Shah Jehan's reign a branch was opened to Delhi the works were neglected during the decline of the Mogul dynasty, and they were abandoned until the English took them in hand the English took them in hand.

The Marquis of Hastings, from 1814 to 1823, began the restoration of Firoz Shah's work, and by 1870 half The supply, however, a minion acres were mingared the supply, nowever, was uncertain, and moreover adjacent lands became was uncertain, and moreover adjacent lands became waterlogged, so it was remodelled and re-aligned to a million acres were irrigated wateriogseu, so it was remouened and re-angued to a great extent, and in the famine year 1897-98 the area a great extent, and in the tannine year 109/790 the canal on this canal irrigated amounted to 764,000 acres there are some river level arconnection of rules there are some river level arconnection. there are some river level crossings by means of inlets

and escapes

nd escapes
The Surhand Canal also serves both Imperial and
The Surhand This canal takes off from the left bank. Native lands at Rupar, which lies at the foot of the Sutlel at Rupar, which lies at the foot of the Suralize or lower bills of the Himslerian round. or the Suuel at Rupar, which hes at the 1001 of the Siwaliks or lower hills of the Himalayan range, where the minimum discharge of the river is 2,800 cubic feet the minimum discharge of the river is 2,000 cubic feet. The per second, the maximum being 6,000 cubic feet. 1841, work was first proposed by Sir William Baker in 1841, work was first proposed by Sir William Baker in 1870, but the first estimate was not canotioned until 1870. Native lands but the first estimate was not sanctioned until 1870 Lord Ripon let the water in 12 years later in 182 The Scinde, Punjab and Delhi Railway laid a branch to serve during the later part of the construction and continued it past the head works to a stone quarry some miles beyond In crossing the numerous streams the line was carried on so-called the line was carried the line was carried the line was carried to so-called the line was carried to so-calle dipping into the beds of the watercourses oupping into the peus of the anomalies attaching to here also that some of the anomalies attaching to Government departmental work were At Rupar there was a small boat yard, as it was At Rupar there was a small boat yard, as it was in intended to navigate the canal, and this was in charge of a British stonemason, the quarry beyond it

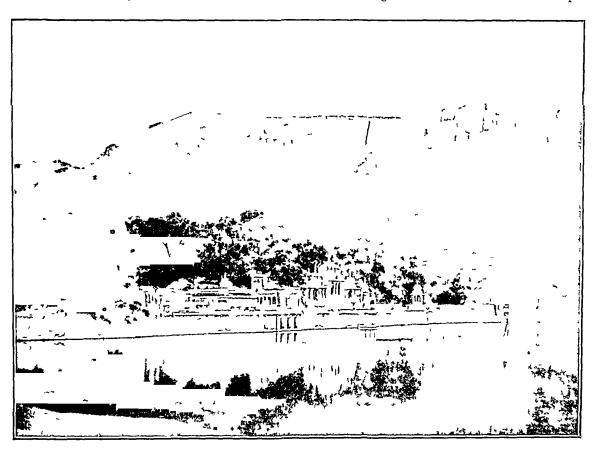
an anuvial plains simularly situated
The land on the high banks along the rivers is called
"Bhangar," that in the low lands between them, from
"Bhangar," that in the low lands between them, from Lower Jhelum Upper Suiles Sidhnai including Lower Sohag and Para 182,14C Io to 50 feet below, is called 302,900 Lower Chenzb 39,183 164,589 3,15 439 Sirhind 213,997 39 967 10 04 Western Jumna Imperial Imperial 1,945 675 Loss Rs 27,20 734 5 33 ⁴⁰⁹ 9>5.741 743 98,712 25 88 Canals 796 813,454 1,09 823 1 98,23 305 10 37 199 700,335 2,48,37,227 21,32,523 24 48 718 Acres Irrigated 12 93,908 1,72 75,463 12 13 2,806 7,33 410 6 86 Cipital Cost Rs oi Net Percentage Revenues Viles in operation

* To which have to be added the Upper Chenab Rs 32,823 and the Upper Jhelum Rs 14,563 3 98,85,197

was in charge of a Danish shipwright. The flow in this canal is now sufficiently fast to automatically prevent the deposit of coarse sand. In the first 57,000 feet of the canal the deposit amounted to 20,253,000 cubic feet in 1893, in 1904 it was only 1,422,000 cubic feet. The Sugh and Budki toilents are carried over this canal at a height of 24 feet. The aqueduct is designed to carry 30,000 cubic feet per second, it is 400 feet wide with a depth of from 8.4 feet to 8.34 feet.

More than one-third of the cost was contributed by the Phulkian States —Patiala, Nabha and Jhind, in consideration of this they are entitled to the same feet per second, serving Gardaspur as well as the above mentioned important towns. It was begun after the annexation of the provinces in 1850 and was originally opened in 1861—it has been greatly enlarged and extended since then. In the central portion, between the Ravi and the Sutlej it is evident that there was high cultivation which ceased after the Beas was diverted into the Sutlej in 1790 instead of running an independent course into the Chenab

The Lower Chenab Cana'—The ordinary discharge of the canal is six times that of the Thames at Teddington. It lies between the Ravi and the Chenab Rivers, and is the largest of all canals in India at the present



A BEAUTIFUL BUND TO AN ANCIENT RAJPUTANA LAKE

proportion of the supply The water serves large areas in those States, and also in Faridkot and in the Ludhiana and Firozpur districts. In these States the ordinary irrigated area is two million acres, three-quarters of which is by the above two canals

The Barr Doab Canal —The silt here is very sandy The Hash Canal was constructed by native chiefs in former times to serve Lahore and Amritsar with water from the Ravi, and the Barr Doab takes off very near the same place, at Madhopur on the right bank of this river, close to the foot of the hills where it has a discharge of 1,200 c feet per second Here a weir diverts the water into a canal having a capacity of 45,000 c

time It was originally an inundation canal opened in 1887, which ran the risk common to all such canals of silting up. In 1889, work having been started in 1884, it was converted into an irrigation canal of the first magnitude. The weir head works are at Khanki 8 miles below Wazirabad and were completed in 1892, since which there have been constant enlargements and extensions so that it now serves the greater part of the Rechna Doab, nearly all Crown land in the Gujranwala, Jhang, and Montgomery districts, and commands 2,645,000 acres or over 4 134 square miles of culturable land which was formerly an uninhabited howling desert (The cultivable area of Egypt 1s_3,000,000 acres). It

16



No 2 debouches, it should come from the Ravi, but the old Bari Doab Canal absorbs most of the supply from this river, so a portion of Canal No 2 will be carried under the Ravi by a syphon and will deliver the water into the waste lands of the Lower Bari Doab. This great syphon will carry 6500 c feet per second under a river having a flood discharge of 200,000 c feet per second, it will be a quarter of a mile long.

The minimum height above the soffit at low vater will be 27 feet. There are eight vent barrels 111 feet by 10 feet, carrying 6,500 c feet per second under the Ravi v hich when in flood, dicharges 200,000 c feet per second. There is an invert over the v hole work enclosed in iron straps, it is 1,400 feet long between the drop walls, and there is a drop of 4 feet through the syphon.

Another work now being studied is the New Swat River Canal, involving two tunnels under the Malakand and estimated to cost two crores. This project is in an advanced state. Another to tap the Kabul River 20 miles north of Peshawar is still in embryo.

MINOR CAPITAL WORKS

Nearly all these are treated as Imperial

Shahpur Inundation Canals—There has been a great
reduction in the revenue on these canals

Ghaggar Canals—The loss on the vorking of these canals has increased

Name of Canals	Shahpur inundation	Glinggar	Total
Acres of I and Irrigated	18 691	16,112	35 403
Miles in Operation	152	68	220
Capital Cost Re	- 15 914	3 13 215	3 0,1,9
Percentage of Net Resenue	18 oc	Deficit Rs 38,825	0 01
Total net Deficit Rs	17,11 133	-2 16 244	1 05 189

UNITED PROVINCES

In the United Provinces of Agra and Oudh there are five Productive Works, irrigating 1,909,316 acres with a mileage of 8,593, the capital cost of which has been Rs 8,73,54,769, yielding a net revenue of 7 58 per cent, the total net revenue having been Rs 4,16,15,024. The area irrigated is, however, gradually decreasing. The water charge is distinct from the land revenue as in the Punjab.

Canals	Ganges	I ower Ganges	Agra	Lastern Jumna	Fatchpur Branch Lower Ganges
Acres Irrigated	8 18 551	5 96,257	1 85,297	2,77,543	31 668
Capital Cost Rs	3 20,80 1,3	3,66 24 484	1,03,10,038	47 57 968	35,72,226
Percentage of Net Revenue	9 66	į 66	5 75	22 82	‡ P5
Miles in operation	3 206	3,195	774	884	534
Total Net Revenue	2,00,61 061	-24,72,768	-7,32,116	2,55,33,480	-7,74,333

The Ganges Canal —An old canal opened at the beginning of the 18th century took off from the left or eastern bank of the Jumna, it was re-opened early in the 19th century and now serves parts of the Saharanpur, Mozufarnagar and Meerut districts Sir Probv Cautley used the experience he gained on this work in designing and constructing the Ganges Canal, and it was opened in 1854 after six years' work. It serves nine districts in the Jumna Ganges Doab, taking off from the right bank of the last named river just below the famous pilgrimage place, Hardwar, by means of a weir constructed of rubble stone, fascines, and earth work, made up annually, and annually destroyed by the It passes over the Solani River in an aqueduct named therefrom, and is not only the first large original work executed in Northern India, but is reckoned second to none in boldness of conception and to very few in utility and financial success. It was originally designed for a flow of 6,750 c feet per second. This was found to create too much scour, especially at the open Ogee falls Nine lakhs vere spent in remedying defects but the main original features were not altered

On this system there are 1,730 miles of drainage channels, with the result that the lands which had previously remained flooded till the end of the cold weather are nov drained sufficiently dry for the rabi sowings, the level of the subsoil water has ceased to rise and the sanitary condition of the district has been much improved

The canal is carried over the Solani River by means of an aqueduct with fifteen 50-feet arches, it is 172 feet wide, with a discharge of 6,500 c feet per second, the parapet walls are 12 feet 9 inches high The cost was Rs 32,87,000. The Puttri torrent is carried over this canal in an aqueduct and there is also the Rampur superpassage.

This can'l supplies a large proportion of the water for the next two canals

The Lower Ganges Canal — The cost of the vork per each cubic foot of full discharge was the highest in India, viz, Rs 3,838. It takes off, by means of a weir, at a point 130 miles below Hardwar on the right bank of the Ganges, and irrigates seven districts in the lower part of the Doab. It was opened in 1878 after six years' work. There is an escape back into the river about two miles below the weir sufficient to scour out the greater part of the silt. This canal is carried over the Nadrai or Ivali Nudi River by means of an aqueduct with fifteen arches of 60 feet span, founded

on wells sunk 50 feet below the bed of the river The width is 130 feet and the maximum velocity is 4 feet per second, there is a 12 feet roadway on one side and a 6 feet bridle path on the other The cost was Rs 44,57,000 This and the Solani are the two largest works of the kind in the world

The Agra Canal was opened in 1874. It takes off the right bank of the Jumna II miles below Delhi, at a place called Okla, and serves part of the Gurgaon, Muttra and Agra districts. On this work there is an escape below the weir

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THE KISTNA ANICUT

was constructed by Sir Arthur Cotton in 1844-50, and is one of the two most remunerative works in the

Presidency

The Kistna Canal was planned by Su Aithur Cotton who also at the invitation of the Provincial Government as mentioned above, proposed irrigating large portions of the Bellari, Kurnool, Cuddapah and Nellore districts The Madias Irrigation Company was formed to carry out the whole scheme under a Government guarantee, only a portion of which, however, was ever completed, and the Government took over the works in 1882 The complete Tungabhadra project for utilising the river of that name (a tributary of the Kistna) as well as storage work on the Kistna itself are being considered and, should it be found possible to carry them out at a reasonable cost, they may yet be constructed

There is no doubt that more storage works are required as the existing ones are insufficient for Whereas if they were idequate, second present needs crops might be sown and the famine districts be completely protected But both the country and the soil are unfavourable to canals, and the works would be very costly The question is therefore whether indirect profits from absence of famine would not

justify the outlay

committing themselves to any big schemes, and, although the result of working by Government agency had proved very encouraging they considered private agency more advantageous, this however, for various reasons did not prove to be the case However, the percentage of working expenses to gross revenue was the lowest in India, ciz, 1059 The grand anicut on this system was constructed 1,600 years ago. The Cauvery system is the other work alluded to above as being most remunerative

The tendency of main streams to go back to old channels has already been mentioned this has had to be checked in this instance by an anicut across the Cauvery and Coleroon Rivers in order to preserve the present arrangement The marginal embankments have had to be raised higher and higher and are cut from time to time to provide discharges on to the low lands in moderate amounts, this being the course taken generally by Nature when she is undisturbed by artificial restraints The Upper Coleroon anicut is now being remodelled

The Srivarkuntham Amout is on the Tambraparni

River, in Tinnevelli, south of Tuticorin

Kurnool Canal - The Kurnool-Cuddapah Canal is the only part of Sir Arthur Cotton's big project that has so far been constructed The Madras Irrigation

Name of Work	Godaveri Dulta Suystm		Penner Cauvery River Delta Canals System		Srivali Kuntham anicut System	Kurnool C mal	Barur T ink	Periyar Project	
Acres Irrigated	8 78 999	6,48 247	1 29 0 7	9 89 226	44,074	88 919	5 493	1,56 634	
Capital Cost Rs	1 36 93 341	1 53 22 551	01 38,713	3°,73 3 ⁶⁸	1, 97 016	2 17 71 264	4 34 841	93 34 814	
Percentage of \eta	19 34	11 10	0 13	25 90	6 34	0 18	1 07	4 08	
Miles in operation	2 466	2 371	473	2 094	90	505	29	2 7 6	
Lotal Net Revenue Rs	4,87,83709	2 94 69 631	9 or 860	2 79,87 628	3,00 928	- 1 96 03 808	- 2 42 183	- 22,61,602	

The present weirs on the Tungabhadra were constructed by Krishna Raya at the beginning of the 16th century The old dams called corumbos, were composed of earth and brushwood and were renewed every year The Bezwada anicut was built in 1852-55, it is 3 714 feet long and 20 feet above the deep bed of the river It is founded on pure sand and is situated in a deep gorge, where floods rise 40 feet at times giving a depth of 19 feet over the crest, with a discharge of 770,000 c feet per second On this canal a "syphon" crossing got choked by detritus and was carried away

The Penner River Canals -The net revenue from these canals which averaged 446 between 1896 and 1904 fell to 0 13, as noted above, owing to the grant of large remissions and to the diminution in the area of second crop cultivation in 1904-05, on account of the

unfavourable character of the season

The Cauvery and Coleroon Delta System — These works in Tanjore were started under native rule and were improved by Sir Arthur Cotton in 1835-36 As the funds for these and the similar works on the Godaveri and Jumna, already mentioned, were provided out of revenue only, the East India Company shrank from

Company came to grief over the work, and it has never been successful—even now it only just pays its way, and is never likely to become really "Productive" The capital cost was greatly in excess of the estimate, and the works were taken over by the Government in 1882 On this canal there is a bank 50 feet high on side long ground, it is 35 feet high for miles average cost per acre irrigated has been Rs 24-6

The Barur Tank is one of the most unremunerative works in the province and it is not expected that it will ever yield any profit, so as to justify its inclusion among "Productive" works

The Periyar Project —The works which were opened in 1896 have so far cost about Rs 1,300 per million c feet of water stored They consist of a large storage reservoir in Travancore on the western side of the Ghauts, with a concrete dam across a narrow gorge in the Periyar River, which discharges on the Malabar Coast The impounded water is diverted by a tunnel through the hills into the Vaigai River on the eastern side of the Ghauts, this river discharges into the Palks Straits in Madura and there are many old irrigation works upon it, but the supply therefrom is very uncertain The scheme was designed and carried



the cost of revenue management for each rupee of irrigation revenue, and the incidence of irrigation revenue per acre irrigated, are the lowest. The gross revenue has risen steadily in the last three years

The Umharwah Canal — The net revenue on this canal was as high as 17 96 per cent in the triennium 1896-99. The gross revenue has declined in the last three years. The cost of revenue management per acre irrigated is the lowest in India, being Re o 10.

Of these canals the Fuleli alone is navigable, it lies in the Hyderabad district, is generally perennial, and can serve 400,000 acres. There are four small works in progress on the left bank of the Indus and many extensions have been proposed, when these have been carried out the present area irrigated will be increased by 20%. This area fluctuates about 800,000 acres according to the state of the river, but the canals never fail entirely, are cheap and profitable—

	. ———							
Name of Canal	Desert	Umharwah	Begarı	Lastein Nari	Jamiao	Dad	Wasiat	Mahiwah
Acres irrigated Miles in operation Capital Cost Rs Percentage of Net Revenue Total Net Revenue Rs	199 513 318 26 67 057 7 17 9 31 060	66,59 ₅ 98 6,59,688 9 54 8,66 997	232,408 158 17,06 709 17 23 44,65,645	269,415 298 66,02 930 6 26 16 12 01	260,030 591 82,59 133 3 85 - 5 68 549	68 085 355 22 69,474 Deficit Rs 1 16 232 5 09 568	77 033 234 16 70 495 0 87 -1,54 592	28 619 60 13 46 817 3 11 -26 247
				<i>t i</i>		,	ł	

The Began Canal — The net revenue on this canal was also as high as 21 per cent in the same triennium, but it has been very steady on the whole as has also been the gross revenue. These three canals also take off from the right bank of the Indus above Sukkur and have been practically made by Government.

The Eastern Nara Canal—The net revenue returns were the lowest since 1896-99, having been as high as 7 32 in 1899-1902. The total working expenses per acre irrigated were the lowest in India, viz. Re 0 47. This canal takes off from the left bank of the Indus above Sukkur and discharges into the Runn of Cutch giving perennial supply.

The Jamrao Canal was opened in November 1899 and the net revenue rose to 508 in 1903-04. The gross revenue on this has fluctuated considerably in the triennium 1902-05, but has improved considerably on the whole. It takes off from the Nara at the lower boundary of Khairpur State and the tract is being colonised.

The Dad Canal—The gross revenue on this has

steadily declined in the same period

The Nasrat Canal - The same remark applies to this

canal which was opened in 1903-04

The Mahiwah Canal first came into operation in 1903-04 and the gross revenue has dropped over 40 per cent since then

The Naulakhi Canal is under construction but has not yet been mentioned in the returns

MINOR CAPITAL WORKS

There are eight of these, irrigating 798,434 acres, the capital cost of which has been Rs 45,54,478 yielding a net revenue of 19 48 per cent, the total length of the canals being 1,826 miles. The total net profit has been Rs 2,36,94 290. These works were nearly all treated as "Imperial"

witness the Ghar, which pays nearly 93% and which has returned its capital outlay more than 29 times. There is no doubt that a weir will have to be put up at Sukkur, owing to the amount of water that will eventually be abstracted from the upper part of the Indus for the Punjab Canals. It will be a very difficult and costly job owing to the strength and depth of the current even at low water.

BOMBAY-DECCAN AND GUJARAT

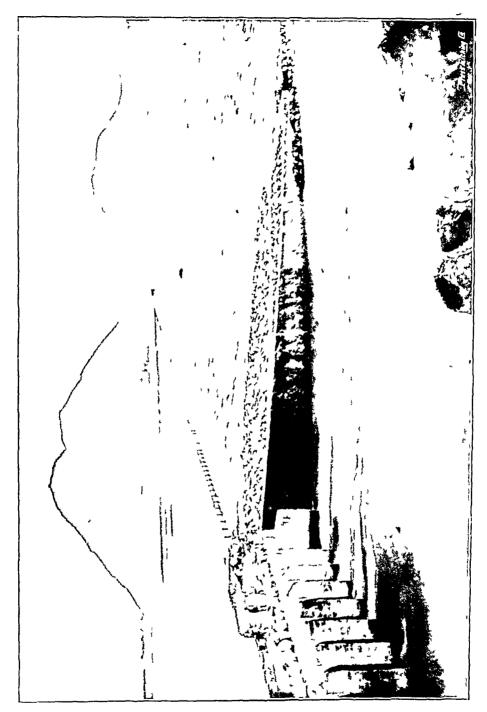
The rainfall in the Deccan plateau is very uncertain and is almost entirely due to the south-west monsoon some very large storage works have therefore been There are remains of very large tanks constructed such as the Madag Tank in the Dharwar district Excluding wells, 2rds of the irrigation depends on field embankments and small tanks serving from 3 to 400 acres, most of which the State, on account of its great interest in the revenue now controls and contributes to their maintenance and improvements area served by private canals is probably about 71 million acres but many of these are apt to fail when This uncertainty accounts for the nonmost wanted success (financially) of the Irrigation works in these parts of the province, moveover storage works are costly and the demand is irregular except on small areas on which high class crops are raised and which pay high rates The loss by evaporation leakage and absorption is also very great, being from 10 to as much as 62% So-called "occupiers" rates are levied on all major and on several minor works, generally from Rs 10 to Rs 25 per acre on sugarcane, the average being Rs 4-8 The working expenses are the highest in India being Rs 2-8 The charge for Irrigation works are small compared with those of other provin-

ces and the extent of area irrigated by them continues steady with slight variations. The works have not yet paid off the interest charges

MAJOR PRODUCTIVE WORKS

There are seven works in this province irrigating 31,885

Name of Canal	Sukkur	Ghu	Great Marak	Sarfrazawah	Γulelı	Three other works costing under 1 lakh
Acres Irrigated Miles in Operation Capital Cost Rs	82 060 130 14 25 974	2,51 537 296 4 98 602	55 835 17- 2,1 ₃ 746	26 6 ₅ 8 111 1 24 680	13 46,712 1,021 18,61,503	35 632 193 4 27 973
Percentage of Net Revenue Total Net Revenue Rs	2 50 15 09 268	92 67 1,46,44 882	20 13 11,31 617	11 88 2 52,784	16 16 60,42,644	7 09 1 13,095



THE KISTAL AMELTIRON SITINGRING IND

acres, this area is gradually decreasing. The total length of the canals being 433 miles. The capital cost of these has been Rs 1,15,40,351 yielding a net revenue of 1 87%. The total net deficit having been Rs 9,118 750.

I he Mhasvad Tank is not likely to prove remunerative
I he Nira Canal is also not likely to prove remuner
ative

The Shetphal Tank is another unremunerative undertaking and is likely to remain so

Names of Works	Hathmati Canal g	I ower Pinjhra kner Works	Kadis i Piser Works	l ikh Cinil	Mutha Canal	i kruk I ank	Kusar Ciral
Acres Irrigated	51	- 489	1 81	7'7	10 971	1 810	7,145
Miles in Operation	51	\$ 5	38	32	1,5	; 8	61
Capital Cost Rs	n 17 833	4 68 6-1	2 iv uto	3 71 803	71 75 746	13 to 386	8 + 6 62-
Percentage of Net Keveniu	Deficit Rs 24 150	o to	1 -7	Deficit Rs 17 508	. 27	£ 4.7	1 00
Fotal Net Deficit Rs	60, 151	3 74 410	7 62 847	74, 110	h (11 081	17 26 3d4	7 (104

The Kadra River Works have cost Rs 3,605 per mile

MAJOR PROTECTIVE WORKS

There are six (including the Gokak Canal 1st section which is now classed as a minor work, and included in the Gokak Storage Works) irrigating 60,564 acres, the total length of the canals being 353 miles. The capital cost of these has been Rs 95,87,720, yielding a net revenue of 0.55%. The total net deficit having been Rs 56,89,729, which is not likely to be recouped within a reasonable time although the works are classed among "Productive" ones. Taking these two classes of works together, the average value of the crops per acre was Rs 82, the average rate of revenue assessed was Rs 5-8, and working expenses per acre irrigated came to Rs 2-9, these figures being the highest in all India

MINOR CAPITAL WORKS

There are thirty of these irrighting 40 695 acres, the total length of the canals being 480 miles. The Capital cost of these has been Rs 86,36,900, yielding a net revenue of 0.46% the total net profit having been Rs 42 275. The works were nearly all treated as "Imperial".

MINOR REVENUE WORKS

The figures for Sind and the Deccan separately are not available. Those given by the Secretary to the Government of India are as follows—\cres irrigated, 1,033,044 Revenue Receipts, Rs 22 95,972 Charges (direct only), Rs 12,66,691, Net Revenue, Rs 11,28,381 The figures given by the Accountant-General are—Direct Receipts Rs 40,552, Expenditure, Rs 21 71,411 Nearly all the works suffered financially from the

fall in the price of sugar. On the Nara Canal, for example, although the area irrigated rose some 50% in the last 12 months revenue fell 76% in the same

period

The Mutha Canals will be fed from the Mutha reservoir at Kharavasta (Lake Fife) on the river of that name, which is fed from the Ghats in the Poona District of Bombay, where the rainfall amounts to 200 inches, over a catchment area of 169 square miles, the fall of the river is 6 feet per mile The capacity of the reservoir 4,911 million cubic feet The dam is 3,687 feet long, 1067 feet high, and 11 75 feet above the crest

Gokal Canil 1st Sect	Mhasvid Lank I	Nira Canal Whiting	Setph il Lank	Chard apur , I ank	
	861,	18 823	3 127	·	
	107	230	7		!
4 12 666	20 91 130	6 90 488	7 06 228	3 62 478	31100
Deficit Rs 16 098	0 13	o 8o	0 73	Deficit R4 10 45	Deficit R 12 050
3 65 654	17 39 431	33 14,759	1 10 107	78 58	75 330
	4 12 666 Deficit R = 16 098	Cond Const of Lank I	Mass of Cond Cond Whiting	September Sept	C m

Name of Work	Nhun cut	Jundur Canuls	I usul Jank	Priviria kiner Works Ojhir Gunal	Ilhatodi Tunk	Matobat I mk	Shirnph վ Tank	Bhidatradi Tank	Vshti I ink	Upper Main River Works	Yerly River Irri Lython Works	Main Jank	Vada, Tank	Muchkundı I'nık	Cokik Cindict Section and Storice Works	System of her Westersthan
Acres Irrigated	47	4 ^4	628	7 187	849	2 111	1 371	1 531	708	8,0	3 94°	1011	761	4	9 < 1	1 22
Miles in Operation	36	114	5	40	10	17	12	10	30	 	37	1,	0	7	49	65
Cipital Cost Rs	6 17,151	10 41,0°9	2,14 905	7E 530	3 79 707	01 472	2 ~4 56	27 42	100 95	1 30 206	7663	4 44 4 7	16,59	1 5 70	94 1/9	ر 16 د
Percentage of Net Revenue	Deficit Ks 71278	Deficit Rs 3 388	0 0	o 57	Deficit Rs 200	3 00	Deficit Rs 905	0 41	Deficit Ls 187	0 17	0 05	a 9*	0 0	Deficit Rs 3	2 49	o
lotal Net Profit or Deficit Rs	+16 658	-~ 36 113	+8,741	-1 108 0	-3 707	+1 36 383	-9 791	T-5 444	~8 95	- 29 604	-5006	+13 1	- 218	- , 830	+3303 (→ 97 °5

of the waste weir The clear length of the sluices is 1,030 feet and the discharge over the waste weir amounts to 74,877 cubic feet per second. The cost works out at Rs 485 per acre irrigated, the highest in India. The cost of the distributaries was also the highest, viz, Rs 12,170, and the cost per acre irrigated, Rs 108

The Mhasvad Tank has a capacity of 3 072 I million cubic feet and of 3,262 7 million cubic feet above sluice level. The catchment area is 480 square miles, on

which the average rainfall is 228 inches

The fall of the river is 12 feet per mile. The length of the dam, which is of carth, is 9,080 feet, and its maximum height 798 feet, the height above the crest of the well is 13 feet, the length of the waste weir, 3,000 feet, and its discharging capacity 235,545 c feet

per second

Nira Canal — This work, though not directly re munerative, proved most valuable in the famines of 1896-97 and 1900-01. The river is fed from the same source as the Mutha. The works consist of three parts, viz, 1st, the Bhatgarh Reservoir, commonly called "Lake Whiting" which is on the Yelwandi River, 2nd, the Vir basin formed by a weir at Vir on the Wira River, 3rd the main cuial taking off from the left bank of the same. The reservoir contains 5,313 million c feet, of which 3,953 million c feet are available for irrigation. The waste weir has 103 openings of 10 feet, of which 88 have automatic gates, the others being worked by hand gates and stop planks. The canal will serve 275,000 acres, the catchment area is 128 square miles in extent, on

which there is a rainfall varying from 40 inches to 250 inches. The dam is 3020 feet long, 127 feet high from the foundations and has a roadvay on top carried by arches over the two waste weirs. These are 810 feet long, and will carry off a maximum flood of 51,600 c feet per second, with a 10-foot head. There are 15 under-sluices 8 feet by 4 feet through the dam to clear the silt away, and they are 12 feet above the bed of the river which falls 5 feet per mile. The main weir at the head work is 2,273 feet long and 42 feet above bed of river.

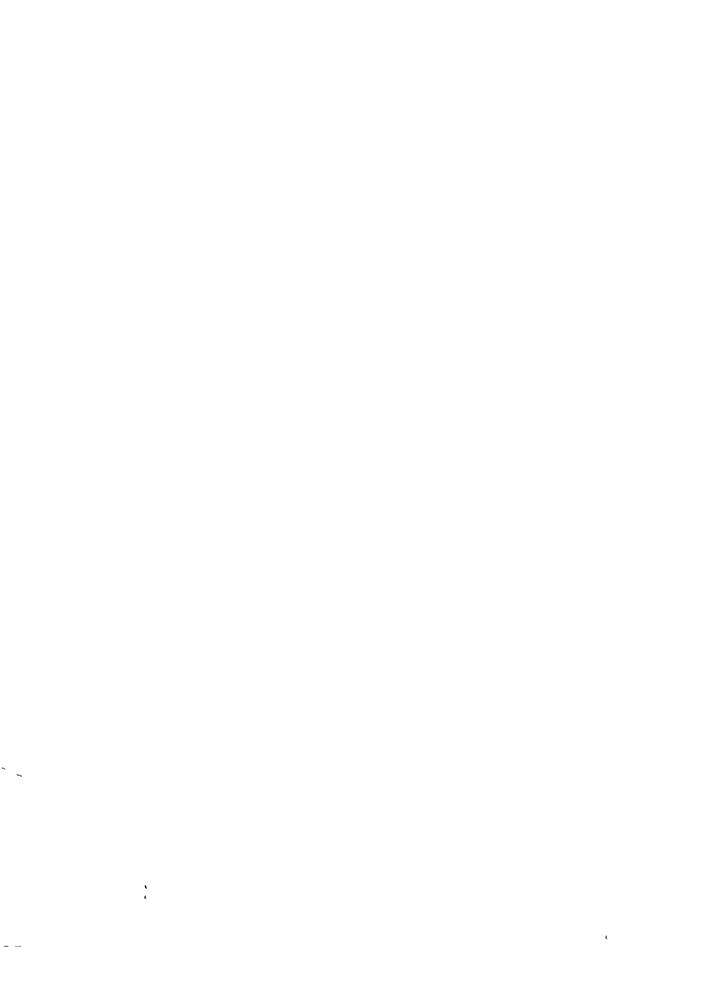
The Pravava River Works in Ahmediagar district will store 8,670 million gallons at a cost of Rs 350 per million gallons. The dam is designed to be 1,425 feet long and 250 feet high. The watershed is 47 square miles in area on which the rainfall varies from 150" to 450". The waste weir is 850 feet long and is fitted with automatic gates 10 feet by 8 feet.

BENGAL

Major Productive Works

There are three of these irrigating 800 227 acres, the total lengths of the canals being 3,447 miles. The Capital cost of these has been Rs. 6,17,98 560, yielding a net revenue of 1.59 per cent, the total net deficit having been Rs. 6,56,72,463. These works though classed as "Productive" are not likely to come under the description of those likely to "cover all charges for interest within a reasonable time." The Revenue rate is only 7 per cent.

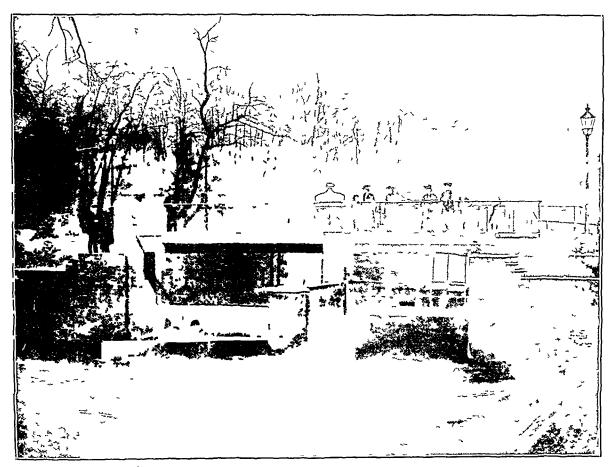
Name of Canal	Sone Project	Midnapore Canal	Ori a Project	Dhaka Canal	Tribeni Canal	Saran Project	Totals
Acres Irrigated	4 92 265	8,,892	2 22,070				8 00,227
Miles in operation	1,585	369	1,,03	,	1	7.,	3 471
Capital Cost Rs	2,67 25 176	84 82 468	2,6_ 90 916	3 54,698	12 32 553	7 14 170	6 41 19 993
Percentage of Net Revenue	3 25	082	0 18	Defeit Ps 11, 15	Deficit Ps 30 126	Deficit Rs 1,2,9	,
Total Net Defeit Rs.	2,21 14 _99	1,00 79 525	2,34 78 338	29 811	97 5°2	1 53 7 10	657 = 7



150,000 to 650,000 acres, according to the season No complete failure of rain had been known till 1896 and the pressure of population had been light, in fact, if anything, there had been too much rain Since 1896 there have been such severe famines that protective works have become necessary, but are not likely to pay In Berar, for instance, only wells were used, the later rains failed in 1896, and there was a severe famine in 1899, still the necessity for irrigation is not often felt. The northern hilly tracts would lend themselves to storage works, but in the south, in Malghat and Balaghat, especially in the latter, tanks might fail during severe droughts. In Coorg it is only in a narrow strip along the eastern boundary that the failure of the rains occurs sometimes, a few petty works have been constructed here

NORTH-WEST FRONTILR PROVINCE

Major Protective V	Minor Capital Work	
Name of Work	Lower Swat River Canal	Kabul River Canal
Acres Irrigated	1 59 412	27,843
Mile_ in Operation	208	65
Capital Cost Rs	41 70,702	6,31,070
Percentage of Net Revenue	9 70	14 40
Total Net Profit Rs	12,11 693	7 24,880



A ROLLING DAM ON A BERLIN CANAL

Name of Tank	Khair banda	Khapri Arando	Marowda	Khola	Kusrangi	Khaira Datan	Kuker dehi	Binakheri	Harg aban	Pindraon	Asola mend i	Total
Capital Cost Rs	1 86 397	1 21 040	1 60 1,6	87 64	3,8301	70 131	76 877	74 175	59 914	1 26231	1 17 934	11 89 35
Percentage of Net Revenue and Deficit Rs	₂ 1 ₂ 0	3 078	4 ~51	2 485	3 ~50	0 01	1 726	1 631	1 452	~ 63 ₃	286	20 183
Total Net Deficit Rs	7 900	3 814	5 535	3 701	4 199	2 928	1,900	1,904	z 807	2,9,9	3 492	39 - 99

this might well be enhanced. In the fumine year 1896 the value of the crops matured by the same canal v is 10 per cent of its capital cost up to that time, for this the cultivators paid only 7 per cent of the increment the canal gave them. Outside the irrigated lands the crops failed entirely.

The rainfall in Lower Bengal and Assum incruges 70 in per annum. In the permanently settled district, especially in Behar, small canals, called *pains* intersect the country and take water direct to the rice fields, or to small ranks called *ahars* formed by field embinisments, nearly five million acres are irrigated in this

manner
Irrigation water is seldom required and the uncertainty of the demand is the cause of the unproductiveness of the works unless higher rates can be obtained. They are however, indispensable as protective works

in the densely populated parts

Five or seven years' water leases are granted for blocks of land with many holdings each occupier is charged according to the size of his holding, whether he takes water or This is subject to revision, and to remission for failure of crops even when not due to faults in the supply This occupiers' rate does not prevent rise in rents due to water advantages The rate on rice is from Rs 1-8 to Rs 2-8, the average rate all round being Rs 1-9 the charge for irrigation comes to about 6 per cent of the crop value

The Sone Project is in Southern Behar The Dehri weir was constructed in 1869-74 and is 23 miles

long The main canals take off from each bank of the river, the discharge varies from 350,000 to 803 000 c feet per second. The canal crosses the Kao Nullah by means of syphons which have to be cleared of detritus occasionally.

Midnapore Canal mostly serves rice crops

The Orissa Project—The East Indian Irrigation and Canal Company was formed to carry out Sir Arthur Cotton's project but the Company were unable to complete the works, and the Government purchased them in 1869 One remarkable work on the Orissa Coast Canal is the crossing of the Rutmoo Torrent by an inlet on one bank and escapes on the other

The cost of Drainage and Protective work, owing to an extensive system of embankments, were the highest

in India, viz, Rs 7-9 per acre irrigable

Taking these two classes together, the percentage of working expenses on gross revenue was 50 8, being the highest in all India. On the Minor Revenue Works the charges were Rs. 1,39,748 and the Revenue Receipts Rs. 95 II2, showing a deficit of Rs. 44,636. These works were all treated as "Provincial"

Dhaka Canal —The estimated cost per cubic foot and full discharge is the lowest in India viz Rs 357

The Tribeni Canal, although a perennial one, has not required a weir at its head works, it is situated in the northern part of the Champaran district and is not yet completed. It crosses the drainage of a large area in

the Champaran district and has six "syphon" crossings, one under the Burra Bubsah carries nearly 3,000 c feet per second

BURMA

MAJOR PRODUCTIVE WOPKS

The Irripation vorls have reclaimed 489 579 acres at a capital cost of Rs 12 776 156 on which the tota net revenue to 31st March 1905 vas Rs 1,38,40 756 As irripation develops, the vorling expenses per acre are gradually decreasing. The rainfall in Lover Burma averages 70 inches per annum of rainfall

There are many very old times in Upper Burms, the most important of v high is the one in Meditila

He Mandalay Canal vis opened in 1902-03 and irrigated 7 000 acres in that year. The average cost per

Major I	ME OF CALITAL WORKS				
Sinc of Work	Mindalis Canal	Sh elso }	Mor Cirils	Irrawad I) I intank ment	Torgan Island I ra Islankm rt
		Under Con	n et an	***************************************	~~~
Acres of re-clumed land	4379			4 14 914	t\$ 6F3
Capital Cost Rs	2, 00 tts	38 8 446	26037	V 10 CF	יין איין איין
Percentage of Net Revenue	0 23	Deficit Rs 1,27 357	Deficit Re Cros	2 61	1(13
Lotal net Deficit Rs	0 01 050	200 180	8 302	1 18 67 11	130 80

mile vas Rs 71 012 the highest in India. This carril is carried across the Thapangaing River by an aqueduct with 12 barrel arches 22 feet by 1214 feet, 300 feet long, with a width of 46 feet, the parapets are formed of shutters 7 feet high and 5 feet vide which are lowered in extraordinary floods. The total vidth of flooring is about 200 feet, the discharge is 60 000 c. feet, partly over, partly under, it vas constructed in 1899-1901 and cost Rs. 384 371

MINOR CAPITAL WORKS

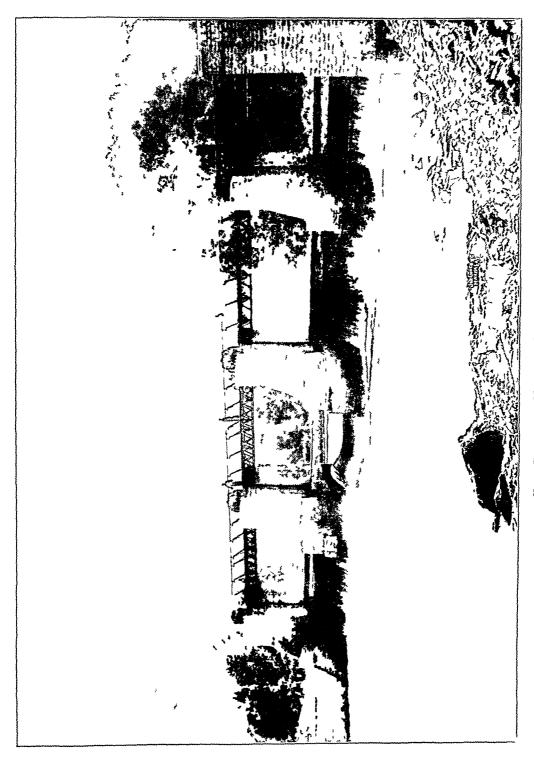
Fifty lakhs have been spent in restorations and repairs. There are numerous private irrigation works, especially in the Magne district and along the tributaries of the Irrawaddy. The water-rate has been consolidated in the settled districts as previously explained in the case of Madras and Bombay.

MINOR REVENUE WORKS

Which served 472 804 acres, the net revenue Receipts were Rs 2,62,708 the charges being 80% of the gross revenue

CENTRAL PROVINCES

There are no State Irrigation works Besides the tanks mentioned below, there are 50,000 small private tanks in rice-growing districts, which protect from



HEAD REGULATOR MANDALAY CANAL BURNA

The Lower Swat River Canal, although sanctioned as a protective work, has proved a highly remunerative The canal, although a perennial one, has no weir at its head works This work was first considered by Sir Henry Lawrence before the annexation Sir Henry Durand revived the scheme in December 1870,

and the canal was opened in February 1888

The syphons on this work are formed of steel pipes 33 feet in diameter, laid in a timber trench filled with concrete The maintenance cost of the works per acre irrigated was the lowest in India, viz, Rs o 12 As has been truly said, this one work has probably done more in ten years to still the turbulence of a quarrelsome frontier tribe than all the police of the province could have done in half a century

AIMERE-MERWARA

All the tanks were made or restored in 1850 by Colonels Hall and Dixon The useful rivers do not run dry, but the tanks maintain the levels in the vells These irrigate from 44 000 to 108,000 acres according to the season. No extension of the works is practicable

Private works are numerous and use perennial storm and flood waters Kharag or underground channels are peculiar to the district. They tap the subsoil water of high grounds and bring it through the hills to the lower grounds They are all constructed by private individuals and show great skill in their execution

20 inches broad with a gradient of $\bar{1}$ in 33, it discharges g c feet per second

On the Minoi Revenue Works the Net Revenue Receipts were Rs 18,69,893 the charges being 56 45 per cent of the Gross Revenue

The Zhera Karez is 5,000 feet long, 36 inches high and

The works irrigated 187,255 acres with a mileage in operation of 273, at a capital cost of Rs 48,01,772

the total Net Revenue being Rs 84,36,573

The Minor Capital Works irrigated 20 890 acres at a cost of Rs 31,69,936, the percentage of Net Revenue being 3 35 and the total Revenue account Rs 15,87,557

RAJPUTANA MINOR CAPITAL WORKS

Name of Tanks	Ajmere Sub Collectorate	Beawar Sub Collectorate	Todgarh Sub Collectorate
Acres Irrigated	11,220	6 700	2 970
Capital Cost Rs	17 64 826	9 45 543	4 59 567
Percentage of Net Receipts	2 54	4 01	5 15
Total Net Profit Rs	8,45 240	4 41,626	2 99,691

These were nearly all treated as "Imperial" There are many old tanks in this province most of which are now abandoned the Udaipur Lake, said to be the largest in India is not now used for irrigation

BALUCHISTAN

MINOR CAPITAL WORKS These were nearly all treated as "Imperial"

Name of Work	Khudhil Khan Reservoir	Shebo Cinal	Anamber Channel
Acres Irrigated Miles in Operation Capital Cost Rs Percentage of Net Receipts Total Net Profit Rs	6 410 22 10 21 117 4 04 1,33 078	2,329 25 6,77 231 0 8 01 010	,0 775

The Minor Capital works irrigated 8 778 acres, with 47 miles in operation. The Capital Outlay has been Rs 17,52,123, the Net Revenue, 2 67 per cent, and the total Net Revenue, Rs 2,27,988

There is little scope left for State irrigation works

besides those in the Ouetta-Pishin district

IRRIGATION COMMISSION, 1901-03

Under the Presidency of Sir Colin Scott Moncrieff, a Commission went into the whole question of Irrigation in India most thoroughly, and in the report the manner of assessment is stated in full actual

The following figures are abstracted from the very valuable report In this table nov given, the figures are exclusive of large areas flooded by river, or saturated by rain-water impounded in natural depressions and

in shallow tanks

In all India (exclusive of the Native States), the population in 1901 was 218,963,000, the average area under cultivation was 226,064,000 acres, of which

Sources of Irrigation	State Works Jeres	Privite Works Acres	Total acres
Well		12 895,000	12 895 0co
Canals	15,644 000	1,235 000	16,879 000
Tinks	2 944 000	2 tot 000	8 138 000
Other Sources	ĺ	6 186 000	6 186 002
Totals	18 588 000	2, 10 000	44,008 000
	,		<u></u>

44,098 000 acres or 191 per cent were ordinarily irrigated from all sources but this latter figure varies considerably-in very dry seasons, the tanks fail and the perennial canals are worked to their maximum

NATIVE STATES

The Commission then procured figures from all the important Native States (except Burma and Baluchistan) which are summarised below. The population was 51,326,000, the total area of the States being 438,000 square miles of which the average cultivated area was estimated at 71,076 000 acres, of which 7,763,000 or 10 64 per cent were ordinarily irrigated. The Commission estimated the total area annually irrigated in Burma and Baluchistan at 53 million acres, of which 19 are from canals, 16 from wells 10 from tanks and 8 from other sources

MYSORE

In this State there are 39,000 tanks, or four to every three square miles, constructed in chains on the slopes and overflowing into each other down to the terminal one If a breach occurs in the top one it generally causes all the others to be breached also. The largest tank holds 3 118 million cubic feet, 10 hold 270, not more than 2,300 irrigated 80 acres or more. The total irrigated area is 540 000 acres, 1,000 miles of canals or river channels serve 100 000 acres, and wells about 70 000 acres. Two large tanks were under construction the Bora Kanave to hold 2 354 million e feet and the Mari Kanave to hold 30 000 million latter is on the Vedavati or Hagari River (which is a tributary of the Tungabhadra) in the Chitaldroog The catchment area is 2 075 square miles with an average rainfall of 23 inches, the dam is 1,185 feet long and is 142 feet high, giving a water spread of 40 square miles which is equal to the Assum Reservoir, but the lake vill probably fill only once in 30 yearsthe average capacity is 10 000 million cubic feet sluices for drawing water off will be fitted with Stoney's roller gates to carry 1 047 c feet of water with a to feet head the maximum head being so feet. It is hoped it vill irrighte 45,000 hores and the estimate is about 40 lakhs During the famine in 1876-77 one-third of the population died- in one part of this tract

HYDER 1B 1D

The area irrigated is generally, 773 000 acres but in a dry year like 1899-1900 it drops to half this amount. There are said to be 18 000 tanks, the largest of which holds 300 millions cubic feet, some of these are very old and most of them were useless until recently. Since 1893 some 7,000 have been restored and projects for others are prepared. Some small canals take off from the left bank of the Tungabhadra, arrigating nearly 4,000 acres. The Manjera Canal Project, now called the Myboob, is completed and will arrigate 10,000 acres.

BOMBAY INCLUDING BARODA

The area irrigated in ordinary years amounts to 1,147,000 acres or less than 5 per cent of the area cultivated

RAJPUTANA

The runfall is uncertain and storage sites are difficult to find, also territorial difficulties are so great that all other sources of the water-supply have to be utilized, so irrigation which is very precarious, is most important. In great rains, 1,170,000 acres are irrigated, being 18 per cent of the cultivated area, from wells and tanks Jaipur, Bharatpur, Shahpura and Kishangarh are best protected. Jaipur, in the last 30 years and under the advice of Colonel Sir Swinton Jacob, has constructed many irrigation tanks, and made liberal advances for wells. The Ramgarh Dam is a bold but successful work. It is constructed of drift sand, covered with 18 inches of broken stone; it is 1,080 feet long, 90 feet high and from 30 feet to 570 feet wide. It has a core wall of sand and clay, 20 feet thick at bottom, with a 1 in 12 batter, and carried 10 feet into the bed of the river.

It is expected that water will percolate along the bed of the dam—this is termed "seepage," and it will be allowed to run out through broken stone at the foot of the outer slope. Bharatpur spent to lakhs in four years, mostly on impounding reservoirs and in distributing the spill waters of the Banganga and other rivers thereby increasing the irrigated area by 50 000 acres.

CENTRAL INDIA

The area irrigated from all sources is less than 6 per cent of the average area cultivated many tracts are liable to severe droughts

BH AW ALPUR

The inundation canals irrigate two million acres and take off from the left bank of the Sutley

The Commission reported in April in 1903, that the field for Productive works was restricted, but that it should be covered as soon as possible, viz, in the Punjab Sind and part of Madras, so as to increase the food supply from parts not hable to famine that Protective Works where most required, viz, in the Bombay and Madras Deccan in the Central Provinces and Bundelkhund, could not do more than pay their working expenses but that this would reduce the cost and mitigate the intensity of famines They recommended that storage works, like Lakes Fife and Whiting, should be constructed in the Bombay Deccan where runfall had never failed, that Protective Works in the rice-growing districts of the Central Provinces the Ken Canal Project in Bundelkhund, and storage works on its rivers should be started Also that investigations should be made into the conditions in the Rajputana and Kathiawar States and in the Central Provinces

The Commissioners prepared a rough programme of new Major Works costing 44 crores to irrigate 6½ million acres. This would impose a yearly burden of nearly 74 lakhs on the State but would save 31 lakhs in famine work, so that the net charge would be 43 lakhs—this would represent the price of protection from famine and of other indirect advantages. The area protected by private irrigation works being actually greater than that by State works, the former should be encouraged by a more liberal and elastic system of Government loans, by grants-in-aid in famine tracts and by other means. India cannot be entirely protected from famines by irrigation alone, and all the works proposed would not intercept more than 2½ per cent of the water flowing to waste in the sea.

These recommendations are all under consideration and the annual revenue allotment which was one crore from 1900 to 1904 was raised to 1½ crore in 1904-05 At this rate it will take a considerable time to carry out the Commission's programme

It has truly been said that "the smallness in the difference of prices in all parts of the country during the famines that have occurred since 1896 is the best justification of the policy of Railway extension (pari passu with the extension of irrigation) as an alleviation of famine"





HIS EXCELLENCY SIR GEORGE SYDENHAM CLARKE, G C M G., G C I E , F R S ,

Governor of Bombay

🎢 IR GEORGE SYDENHAM CLARKE, GCMG, GCIE, FRS, who succeeded Lord Lamington in 1907 in the Governorship of the Bombay Presi dency, is the son of the Rev W J Clarke, of Knoyle House Folkestone He was born on the 4th July, 1848, at Swinderby, Lincolnshiic of which parish his father was at that time the Vicar He began his education at the old school at Repton continuing at Rossall, whence he went on to Haileybury Later on he underwent a special course of Mathematics at Wimbledon School passing first in the open competition for Woolwich in 1866 In June, 1868, he passed first out of the Academy gaining the much-coveted Pollock medal—the greatest distinction for all studies—in addition to seven other prizes In the following month he received a commission in the Royal Engineers, and, at the age of twenty, began a life of scientifi soldiering with two years' work at Chatham and a year's service at Aldershot Here it was that an accidental meeting with the late Sir George Chesney who was then organising the staff of the new Royal Engineering College at Cooper's Hill, led to his appointment as Instructor in engineering drawing at that institution, a post which he held from 1871 to 1880 During this period he found time for extended study and research and he wrote several scientific works, which are now used as text-books Of the books which he published during his connection with Cooper's Hill, the best known is "Plevna a study of the Russo-Turkish War," the others being more technical. He also became an Examiner to the Science and Art Department at South Kensington, a post which he held for some years

On promotion to the rank of Captain in 1880 he resigned his appointment at Cooper's Hill, receiving the thanks of the India Office He was then sent to Bermuda, and later to Gibraltar, where he was employed on fortifications In 1882, he volunteered for service in Egypt, and was despatched at short notice to report on the results of the bombardment of Alex-He took part in several reconnaissances, and reached Tel-el Kebir one day after the battle. At the end of 1882 he returned to England, and early in the following year he joined the staff of the Inspector-General of Fortifications, and took an active part, under Sir Andrew Clarke, in designing the new defences of the Empire which arose out of the report of Lord Carnarvon's Commission His activity was not confined to his own branch of the services, for the experience which he had gained at Alexandria not only led him to take strong views on the altered conditions of fortifications, but caused him to study the whole question of Imperial defence, more especially in relation to the Navy In 1885 he took part in the Soudan Expedition as Deputy

Assistant Adjutant and Quarter-Master-General and was mentioned in despatches. On his return to England, after the Soudan Campaign, Captain Clarke became Secretary to the Colonial Defence Committee which sat from 1885 to 1892 and marked the first important step towards national recognition of the great responsibilities arising out of expansion of the Empire and of the great resources available for discharging them During this period he was employed on a num ber of missions of a special nature, having connection with gunnery and engineering works, and in the course of his duties he visited Sweden, Lintz Berlin Paris Magdeburg the United States, Canada, Malta Gibraltar, Bukarest, and many other places In 1887 he was made a C M G, and in the following year was appointed Secretary of the Royal Commission on the Administration of the Admiralty and War Office, presided over by Lord Hartington, a Commission which did much to promote closer and more cordial co-operation between the two services Meanwhile, his literary activity continued unabated, and he wrote several valuable papers on naval and military subjects. In 1890 he published "Fortification Past, Present and Future" a book that has exercised a marked influence upon the science of fortifications at home and abroad, and which was adopted as a text-book in Japan

After serving at Malta as Second-in-Command of the Engineers, and becoming a Lieutenant-Colonel in 1894, he was appointed Superintendent of the Royal Gun Carriage Factory at Woolwich and here he proposed and carried out great changes in the mounting of guns for coast defence, took out several important patents, which have been assigned to the Secretary of State for War, and devised and perfected an automatic sight which was adopted into the service and had an important effect in increasing the power of coast artillery. The best known of his inventions are, the spade-attachment for checking the recoil of the old field-guns, a device which enabled a high rate of fire to be maintained in the South African War, and a new arrangement for the storage of power developed by the recoil of heavy guns, which has proved very

uccessful

Sir G S Clarke—he had been knighted in 1893—remained as Superintendent of the Royal Gun Carriage Factory until 1901, when he accepted the Governorship of Victoria Before he accepted that post, he had been engaged on a Committee, appointed by Mr Broderick in 1900, to enquire into War Office organisation Mr Clinton Dawkins was the Chairman, and the Committee was a strong one, and issued a report of a very drastic character Sir G S Clarke was recalled from Australia by Mr Balfour in 1904, and was

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one of the Committee of three—the other members being Lord Esher and Sir John Fisher—appointed by Mr Arnold Forster to enquire into the administration of the War Office important suggestions of these Commissioners was that important suggestions of these commissioners was that a body should be provided "capable of obtaining and collating for the use of the Cabinet, all the information and expert advice required for shaping the national policy in war, and determining the necessary preparaponcy in war, and determining the necessary preparations in peace. In 1905 the Committee of Imperial Defence was formed, and the admission to it of a Colonial element, anticipated in the previous autumn by the invitation to its deliberations of the Canadian War Minister, was specially commended S Clarke was appointed Secretary of the Committee a post which he continued to hold up to the date of his present appointment He received a GCMG in 1905, Sır George and in 1906 he became a member of the Committee on National Insurance of Shipping during war

In July, 1907, Sir George Sydenham Clarke was appointed to the Governorship of Bombay an appointment that was received with general approval arrived in Bombay and assumed the Governorship on the 18th October the same year, and on the day of his arrival he was made a GCIE with a ripe experience in political matters and an already well-established reputation as a statesman of no ordinary merit, he received a warm welcome from Coming to India those over whom he had come to rule, and in his reply to the address of the Bombay Chamber of Commerce, presented on his arrival, he displayed a sympathetic attitude towards the commercial problems of the City and the Presidency that was grateful to those chiefly concerned He has since identified himself with the many projects afoot for the relief of the immediate needs of the city. The greatest of these is, perhaps, the congestion caused by overcrowding, and the necessity that exists for the provision of accommodanecessity that exists for the provision of accommodation for the poorer classes of Bombay, upon whom the existing high rents are a growing burden This problem was the first to receive the attention of the new

Governor, and he has set himself to solve the difficulty With characteristic energy While recognising the good work already carried out by the Corporation and the Improvement Trust, Sir George Clarke looks upon it as an indication of the greater work still to be accomplished, and with this end in view, he proposes to lay down a programme, extending over some years, and to deal with the problems with which the city is confronted in the older of their urgency and importance his administration it is too early as yet to say more than that he has made a good beginning, and that he has early recognised the fact that the old order is changing, and that a combination of causes is producing certain inevitable effects under his rule that Sir George has also recognised that it is incumbent upon those placed in positions of power to so direct these new forces that they will find their outlet in channels which will carry prosperity and

Already too, the Governor has had some measure of success in his efforts to bridge over the gulf that exists between Europeans and Indians in the Bombay Presidency, as elsewhere While impressing upon the malcontents that seditious movements will be dealt with in a severe manner, he has held out the olive branch by an invitation to the native papers to aid in the difficult work of administration, and to endeavour to help the Government in its tash, instead of obstructing One direct result of this appeal has been that, for the first time in history, a large number of editors of native papers have been brought together under one roof with the object of having the plague operations explained to them and have gone away convinced as to the efficacy of the methods pursued, although up to that time they had been bitterly opposed to inoculation This is a notable change of front, that may have far-reaching results

Sir George Clarke was married, in 1871, to Caroline Emily, daughter of General Peregrine H Fellowes, and has one daughter His recreations are music and painting, and he is an accomplished violincellist





His Excellency Sir GEORGE SYDENHAM CLARKE, GCMG, GCIE, FRS, Governor of Bombay.

CHARLES WALLACE ALEXANDER NAPIER COCHRANE-BAILLIE, LORD LAMINGTON, GCMG, GCIE, 1RGS,

Ex-Governor of Bombay

HARLES WALACE ALEXANDER
APPIER COCHRANE-BAILLIE, LORD
LAMINGTON, who resigned the Governorship of Bombay in July 1907, comes of
an energetic race and was welcomed on

an energetic race and was welcomed on his arrival in India as the illustrous scion of an illustrious family. Whilst the grandson of the Admiral of the Fleet. Six John Cochrane, would be heartily welcomed by a maritime people, the son of Cochrane Baille recalls pleasant memories in the minds of politicians and of men of letters of the Disraelinge of politicians and of men of letters of the Disraelinge of England? party, Cochrane-Baillie was one of his most active supporters—and after over 40 years of stress and strain in the House of Commons, Cochrane-Baillie under the title of Lord Lamington, entered that haven of political repose—the House of Lords.

In the year 1860 whilst his illustrious father occupied the seat for Homiton in the House of Commons, Charles Wallace Cochrane-Baillie was born, he was educated at Eton and Christ Church, Oxford, the joint nurseries of so many of our political leaders. He was in the fourth class of the modern history school in 1880, and graduated B \ in 1881 Lord Salisbury was never the man to forget the claims of an old colleague, and thus we find that Lord Limington made his debut in public life in 1885 as an issistant private secretary to Lord Salisbury. In 1886 he entered the House of Commons as the representative of North St. Pancras, a position which he held until his accession to the House of Lords upon the death of his father in 1890. In 1895 he was appointed Governor of Overnsland.

The physical difficulties of Queensland presented as great a problem to the new Governor as did its political conditions A great drought had for seven years devastated the country to such an extent that in some parts of the great west there were to be found children who had never seen a drop of rain. To personally understand the character of this disaster, and to seek. if possible, for some means of physical alleviation, Lord Lamington set out, as no other Governor had previously done, to traverse Queensland from end to end In a country containing an area of 680,000 square miles, for the greater part parched by a pro longed drought, and but sparsely populated, this was a task involving considerable personal discomfort, if not actual physical privation By this means Lord Lamington collected and left to his successor a know ledge of the needs of the country, of its physical

resources, and of the necessities of its people which must bear substantial fruit in years to come

In 1903, Lord Lamington assumed charge of the Governorship of Bombay, and the high qualities of statesmanship he had already displayed in Australia found an even more extended scope in his new appointment Among the more prominent measures that will be identified with his administration are the restoration of the financial independence of the Presidency through the revision of the Provincial Contract, the new arrangement for huancing the cost of famine relief, and the revival of irrigation projects The Provincial Settlement, which gave a position of greater independence than heretofore to the Bombay Government, was a step in the policy of decentraliza tion now about to be carried into effect, and consists of an estimate of standard expenditure based roughly on the estimated expenditure of the year of settlement With regard to the Land Revenue policy of the Government, it was Lord Lamington's endeavour throughout his administration to follow a consistently liberal and elistic policy as regards both the assess ment and the collection of land revenue Great progress was made in education, owing to the liberal grants made by Government for the advancement of higher education Personilly, however, Lord Lamington was of opinion that the cost of higher education should be met by fees from the students But apart altogether from what he accomplished in administrative measures. Lord Lamington's popularity rested on the fact that he always showed himself a sympathetic Governor He devoted much of his time to the problem of the housing of the poorer classes and to questions relating to the samitation of the city, the condition of the Bombay slums, and to the miserable surroundings among which tens of thousands were forced to live and work In this good work he found a sympathetic helper in Lady Lamington, who was no less thorough than her husband And when the serious turn taken by an illness from which her Ladyship had been suffering for some months rendered it impossible for Lord Lamington to remain longer at his post, the news of his resignation called forth expressions of regret from all sides, not only on account of the resignation itself, but also on account of the immediate cause which rendered such a step necessary The retiring Governor left Bombay on the 27th July 1907

Lord Lamington was married in 1895 to the Hon Mary Haughton Hozier, youngest daughter of the first Baron Newlands, by whom he has one son and one daughter



LORD LAMINGTON, GCMG, GCIE, FRGS, Ex Governor of Bombay

THE HON SIR JOHN PRESCOTI HEWEST, KCSI, CSI,

Lieutenant-Governor of the United Provinces of Agia and Oudh

IR JOHN PRESCOTT HEWETT, LCSI, CSI, eldest son of the Rev John Hewett, vas born at Barham in Kent, England on the 25th August 1854, and was educated at Winchester and at Balliol College, Oxford Entering the Indian Civil Service he came to this country in 1877, and in 1906 his appointment to the Lieutenant-Governorship of the United Provinces received the approval of His Majesty the King-Emperor At the time of his appointment to this office, the Hon Mi Hewett was a Member of the Governor-General's Council in charge of the Department of Commerce and Industry and a sketch of his Indian career up to this point was published in Vol I of the Cyclopedia of India The new Department of Commerce and Industry came into being at the beginning of 1905, and Mr Hewett, who had been for some months previously neting as a temporary Member of the Council, was in December 1904 appointed an Ordinary Member to the Council in charge of the new Department The constitution of the new Portfolio involved a great change in the work of the Supreme Council, for it meant not merely the addition of a sixth Member to that Council, but also a redistribution of the duties of the other Members The chief idvintige derived from the establishment of the new Department, which was entirely due to the mitrative of I of I Curzon was the substitution of a prictical commercial buttau for the somewhat unprictical and extremely official agencies that had previously dealt with commerce and trade It also served to some extent to bridge the gulf that lay between private enterprise and bureaucratic indifference

On the 1st January, 1907, the Hon Mr Hewett, as Lieutenant-Govern of the Stir of Indra, and he shortly afterwards took up the duties of his new office. In the first year of his administration he was confronted with the necessity for providing on a large scale against famine conditions in the provinces under his rule. In the course of 1907, the number of those in receipt of famine relief rose from less than 1,000 to nearly 300 000 and in Mirch 1908, there were upwards of a million persons employed on relief works and nearly 400 000 in receipt

of gratuitous relief. The injury sustained by the crops up to the beginning of 1908 was greater than that incurred in the big funine of 1596-1897 Whereas the normal outturn of food-crops should have been about five millions of tons the estimated outturn it the beginning of 1908 for the veit 1907-1908 was between one and a half and two millions only A Rebel Fund was inaugurated by Sir John Hevett in January 1908 the objects of which were to supplement Government relief by providing blankets clothes and other comforts to provide for the orphans, to afford relief to respectable persons by money illowances to poor widows and others to prevent starvation to establish cherp grain shops and to prevent the cultivator the yeaver, and the artisan from being submerged by their losses in famine time The Lieutenant-Governor's sympathetic attitude it is well to note met with prompt and hearty support and has been the means of allevrating much distress

Other important features that have marked Sir John Hewett's rule up to the present have been the interest he has displayed in educational work generally and his insistence on the necessity for the education of skilled 1 bour for all Indian industries. He holds that there is a close connection between education and the progress of industries and trade and that the backwardness of India in these latter is largely due to a non-recognition of this fact. He is taking practical steps to secure for the United Provinces ascheme of general education, which shall be so arranged that without my break of continuity, it shall lead up to technical instruction. As regards Higher Education he looks upon the extension of the Hostel system as a hopeful sign that Indian parents are realising its value as a factor in the formation of character while with regard to Secondary Education he is resolved that it shall be strengthened so as to improve the quality of the students who ispire to the University curriculum. These are imong the education if reforms which he purposes to earry out

Sir John Hevett was marred in 1879 to Lithel Charlotte, the second daughter of Henry Binny Webster Bes. He skeen on cricket and is a first-

rate shot





The Hon Sir JOHN PRESCOTT HEWETT, KCSI, CSI, Lieutenant Governor of the U P of Agra and Oudh

THE HON SIR LOUIS WILLIAM DANE, KCI.E, C.SI,

Lieutenant-Governor of the Punjab

HONOURABLE SIR LOUIS WILLIAM DANE, KCIE, was born in 1856, and is a son of the late Richard Martin Dane MD CB, Inspector-General of Hospitals He was edu cated at Kingstown School, Ireland, and entered the Indian Civil Service in 1876, when he was posted to the Punjab In this Province the whole of his service, up to 1900, was put in From 1879 to 1882 he was Private Secretary to the Lieutenant-Governor, and after serving in various capacities he was selected in 1887 to levise the Land Revenue Settlement of the District of Gurdaspur On this work he was engaged for five years, and in 1802 he was sent to Peshawai to revise the Land Revenue Settlement of that district which occupied another four years 1896 to 1900 he was Chief Secretary to the Punjab Government In 1900 he returned to Ireland, where he served as Resident Magistrate at Tralee, County Kerry, but was recalled to India in the following year as Resident in Kashmir In 1902 he was appointed Secretary to the Government of India in the Foreign Department, and in this capacity he rendered distinguished service The Foreign Office has to deal with many diverse affairs pertaining to the independent States bordering on India, the Native States within India, and several large Provinces under the direct administration of the Governor-General in Council, including the new North West Frontier Province The formation of this Province, whereby the frontier districts were severed from the Punjab, and placed under a separate administration under the immediate control of the Supreme Government, had only just been completed when Mr Dane assumed charge of the Foreign Office, and for a considerable period the new arrangements worked so well that the tribes over the border gave little anxiety to the Foreign Office authorities Afghanistan, however, was, as usual, well to the fore in I ord Curzon's time, and in his opinion it was necessary that a Mission should be despitched to Kabul in 1904 not for the purpose of making new arrangements with the Amir, but with a view of consolidating existing treaties. The conduct of this Mission was entrusted to Mr Dane, and on the 21st March 1905, he, on behalf of the Indian Government concluded a treaty with the Amir Habibullah Khan, by which the Amir undertook to be guided in his relations with Foreign Powers by the advice of the British Government and in return the integrity of his dominions v as guaranteed of sensational reports were set in circulation regarding the objects of this Mission but the startling proposals with which the Mission was credited found no place in the programme with which Mr. Dine vas entrusted and his duty was mainly to talk over Anglo-Afghan relations with the Amir, and to ascertain his views with regard to the fulfilment of the obligations contained in the agreement with his father the late Amir The Imir was quite willing to renew the old arrange-

ments, and was pleased to find that the British Government were equally ready. The arrangements entered upon by Mr. Dane on behalf of his Government formed a good and entirely satisfactory basis for subsequent relations and no new policy on the part of the British Government was involved. For his services with the Mission. Mr. Dane, on his return to India was made a Knight Commander of the Indian Empire.

The history of our troubles with the Tibet inscovers a period of nearly one hundred years, but matters yere brought to a head in 190, when in view of the intractable attitude of the Fibetans the advance to Thisi was decided upor As the Mission was a polytical one, with a strong mil tary element for the purpose of en forcing the arguments if more perceful measures failed the arrangements of the principal details fell upon the Foreign Department, and from January 190, when Lord Curzon made his strongly worded and find representations to the Secretary of State for India on the serious questions arising out of recent incidents in connexion with Tibet, up to the date of the despatch of the M soion to Kabul, Mr. Dane, as head of the Foreign De partment, was mainly occupied with matters relating to the political side of the Mission to Tibet, and with the details of the Convention which was subsequently signed, in the presence of the Chinese Amban on the 7th September, 1904 The final stage, however was not reached until the end of January 1908, when Tsarong Shape, the Tibetan Envoy, paid in to the Foreign Office at Calcutta the third and final instalment of the Tibetan indemnity for the campaign upon which orders were issued by the Government of India to proceed with the evacuation of the Chumbi Villey which we had been occupying since the outbreak of hostilities,

In January 1908, Sir Louis Dane was appointed I icu tenant Governor of the Punjab in success on to the late Sir Denzil Ibbetson Urgent affairs chiefly in connexion vith frontier troubles, prevented him from at once taking up the nev appointment, and it is not vell known that the despatch of the punitive expedition aga ast the Zakka Khels was only decided upon v hen the more penceful efforts of the Political Department had failed. This together with the Tibetan settle ment and the Investiture held at Government House, kept Sr Louis Dane in Calcutta until March The Investiture of the Orders of the Star of India and of the Indian Empire held by Lord Minto on the 28th January 1908, v is the largest that had been vitnessed for many years and Sar Louis Dane as Secretary to the Orders was largely responsible for the arrangements. Farly in March he took short leave to England before til ing up the Licuten int-Governorship of the Punjib

Sir Louis Dane vas married in 1882 to Ldith third daughter of the late Lieutenant-General Sir F B Norman, kcb, by whom he has two sons and three daughters. He is keen on golf, and is fond of

shooting



The Hon Sir LOUIS WILLIAM DANE KCIE CSI, Lieutenant-Governor of the Punjab

HONOURABLE LIEUT -COL SIR HAROLD ARTHUR DEANE, KCSI,

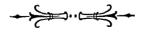
Agent to the Governor-General and Chief Commissioner, North-West Frontier Province

IR HAROLD ARTHUR DEANE is the son of the Rev Henry Deane, late Rector of Hintlesham Sutfolk, and was born in 1854 He was educated at first privitely and later at the Ipswich Grammar School In 1874 he entered the Army, and was attached to the 54th Foot until three years later, he joined the Indian Staff Corps In the Afghan War 1879-80 he served with the 1st Punjab Cavalry and was present at the action at Ahmed Khel on the 19th \pril 1880, for which he was mentioned in despatches and received the medal and At the close of the war he was posted to the Andamans and Nicobars as District Superintendent of Police, and here he remained until 1885, when he entered the Punjab Commission serving first as Assistant Commissioner and subsequently as Deputy Commissioner until 1895, when he was appointed Chief Political Officer with the Chitral Relief Force Following two successful actions, the relief of the Chitral garrison was accomplished by the force under Colonel Kelly which entered the Chitral Fort without opposition on the 20th April, 1895 For his services with the Relief Force Major Deane was decorated and when in October, 1895 the force was withdrawn he remained at the Malakand as Political Agent for Dir Swat and Chitral He served throughout the Indian Frontier disturbances in 1897, for which he received the medal ind two clasps and in 1900 he was appointed Political Resident in Cashmere

On the formation of the North-West Frontier Province in 1901, Colonel Denne as he had by then become was selected for the post of Agent to the Governor-General and Chief Commissioner The Administration of the new Province was inaugurated at Peshawar on the 9th November, 1901, and the Proclamation was read in open Durbar by Colonel Deane the first Chief Commissioner The new Province was created out of the four trans-Indus districts of the Punjab, including the districts of Peshawar Kohat, Bannu and Dera Ismail Khan, with the tribal country beyond them. and the Political Agencies of Dir Swat, the Khyber, the Kurram, Tochi, and Wana There was thus included in the new Province not only the frontier districts, but a very considerable section of settled territory between the Indus and the hills, and the whole was brought under a strong personal non-bureaucratic rule The principles of the new policy which Colonel Derne

was instructed to carry out, were the withdrawal of British troops from advanced positions and the emplayment of tribal forces in the defence of tribal country and the concentration of British forces in British territory behind them, as a safeguard and support The establishment of the Frontier Province and the system of Native levies has relieved the Army of much troublesome v ork, and has conduced to frontier tranquillity at every point. Under the new arrangements frontier affairs are conducted with infinitely greater despatch, and, so far, with better results The wheels of the Administration have worked smoothly under the control of Sir Harold Deane, who was made a KCSI in 1907 for his services Up to the end of 1907, there were no tribal complications calling for the despatch of a punitive force since the new policy was initiated by Lord Curzon, and the wiser methods adopted in dealing with the wild and warlike tribes on the frontier which had been such constant causes of anxiety in the past, were attended with the best results Early in 1908 however, in consequence of repeated raids over the border into British territory, it became necessary to despatch a punitive expedition against the most unruly and daring of the Afrida tribes, the Zakka Khels Warnings had had no effect, and even the usual expedient of stopping their substantial subsidy left them defiant they cared nothing for threats and were simply spoiling for a fight. In February a force under Sir James Willcocks advanced into the Bizar Valley to punish the Zakka Khels, and the subsequent campaign, which listed just sixteen days, enjoys the distinction of being the shortest campaign on which Great Britain has ever embarked. The Force, which was limited to two Brigades, with one in reserve, marched out of Peshawar for Mr Musjid, on its way to the Zakka Khel country, on the 13th February, and by the end of the month the troops were all back The Zakka Khels were severely handled, and again satisfactory terms of surrender were arranged on the 28th February, by virtue of which the Afridis jointly held themselves responsible for the future good behaviour of the Zakka Khel tribes, and undertook to punish the leaders of the recent raids

Sir Harold Denne was married, in 1880, to Mary Gertrude, daughter of Major-General John Roberts, of the Indian Staff Corps





Hon Sir Lawrence Hugh Jenkins, kt., kc.ie, Bar-at-Law, ba (Oxon),

Ex-Chief Justice of Bombay

ON'BLE SIR I AWRENCE HUGH JFNKINS, KT, KCIF, Bar at Law, IA (Ovon), late Chief Justice of the High Court of Judicature, Bombay, was born in 1858, the son of Mr Richard D Jenkins, Justice of the Peace, of Cilbronau, Cardigan He was called to

the Bar in Lincoln's Inn, in 1883 After practising as a barris ter, he accepted the appointment of Judge of the High Court, Calcutta Three years later, in 1899, he was appoin ted Chief Justice of Bomby and received the honour of Knight hood In 1903, he was created a Knight Commander of the Indian Empire He was Colonel Commanding the Cal cutta Volunteer Rifles for about three years

In both the Capi tals of Eastern and Western India Sir Liwience Jenkins enned the confi dence of all classes of the community, as a sound lawyer As a public speaker, he is fully endowed with the Welshman's characteristic power of oritory In the responsible ind post of onerous Colonel Comman dant, first of the old Presidency Rıfle Battalion (Calcutta), and later of the amalgamated corps

of Calcutta Volunteer Rifles, Su Lawrence showed his versatility by proving himself a ready master of drill, while his warm qualities of heart as a leader ensured a period of successful effort in the Regiment which is still well remembered. Sir Lawrence's sympathy with the

Volunteer Force in India was continued in the Western Presidency, where, although by virtue of the high office of Chief Justice he has not been able to be actively associated with the force, he was for several years Honorary Colonel of the Bombay Volunteer Artillery, which well



HON SIR LAWKLINCE HUCH JENKINS, IT, KCIF,
Bur ut-Law by (Oxon) Ex Chief Justice of Bombin

of Auxiliaires is actively commanded by one of his legal brethren on the High Court Bench-the Hon Mr Justice Russel In February, 1908, Sn Lawrence Jenkins resigned his office of Chief Justice of Bombay, on his appointment to the Council of the Secretary of State for India, and the Hon Mr Justice Russel wasgi/etted is Acting Chief Justice, pend ing further orders, fr m the date on which the resignation tookessert A meet ing of prominent and influential citi zens was held on the 5th March for the purpose of giving expression to the deep sentiments of esteem, confidence, regard and affection in which the retiring Chief Justice was held by all comuni ties of Bombay He left Bombay for England by the mail of the 14th March to take up his new appointment

known and fine corps

Sir Lawrence Jenkins was married in 1892 to Catherine Minna, second daughter of the late Andrew B. Kennedy He is much interested in Freemasonry, and in 1904 was installed District Grand Master of the Grand Lodge of Bombay of English Freemasons

THE LATE SIR DENZIL CHARLES JELF IBBETSON, KCSI, ICS.

Late Lieutenant-Governor of the Punjab

IR DENZIL CHARLES JELF IBBETSON

ACSI, was born at Gunsborough in 1847, and
was the eldest son of the late Rev Denzil John
Holt Ibbetson He was educated at St Peter's
College Adelaide, South Australia and St John's
College Cambridge where he took his B 1 degree and
secured honours in Mathematics He entered the
Indian Civil Service in 1870 and on arrival in India was
posted to the Punjab, where the early years of his
service were spent. In the many important posts he
was called upon to fill he acquired a knowledge of the
Province over which he was subsequently to rule, that

was probably unique After a short service in the general line, he was given charge of the Karnal Settlement at first under the control of a senior officer but offerwards independently He took up his settlement work with enthusiasm and de voted himself with the painstaking thorough ness characteristic of the man to a study of the people under his charge, and to a mastery of the work in all its details and he gained in the course of his task, that intimate knowledge of the Punjib persintry which later on stood him in such good stead forc the settlement had been fully completed he was called away to act as Census Commissioner for the Punjab As he possessed a special fondness for sociology. folk-lore and statistics, the census vork gave unlimited scope for the indulgence of his tastes in these directions, and he produced what was

generally acknowledged to be a model Census Report It was probably the literary ability displayed in this Report that led to his selection as Editor of the Punjab Gezetteer. His work on the Gezetteer timished he exted for a time as Director of Public Instruction and then returning to the regular line he became in turn Deputy Commissioner of Gujranwila and Lahore and afterwards officiated as Commissioner of the Jullundur Division, which was a course of employment that did not allow him to lose touch with the practical work of the administration. As a district

officer he set a high standard of duty before his subordinates, and insisted that they should work up to it. From the officiating Commissionership he was transferred to the Government of India as Secretary in the Revenue and Agricultural Department. He was next Chief Commissioner of the Central Provinces, and thence returned to Simla as a Member of the Viceregal Council He also held important appointments on a number of official bodies. He was a member of the Decem Agriculturists Relief Commission a member of the Irrigation Commission and President of the Contagious

Diseases Commission The Knight Commandership of the Star of India was conferred on him in 1903, and in March 1907 he was appointed Lieutenant-Governor of the Punjab, in succession to Sir Charles Montgomery Rivaz Kesi In this appointment he proved himself a strong, able and masterful official The very during the greater part of which he held the rems of office was an eventful one in the Punjab which, in common with other parts of the country, was affected by the prevailing unicst and the machina tions of the extremists After the stormy period following on the Canal Colony Act and the deportation of Lappat Ru and Aut Singh Sir Denzil had an attack of illness which necessitated short leave to England where an operation was per formed On his return to India he once more took up the rems of office, but the strain proved too

formed On his return to India he once more took up the reins of office, but the strain proved too great for an already un dermined constitution, and in the early part of January 1908 after holding the Lieutenant-Governorship for less than a year, he was forced to resign his appointment. His resignation was accepted by the Government of India, with effect from the 22nd January 1908. He left Bombay for England on the 24th January, and died on the 22nd of the following month, shortly after the ching London. The immediate cause of his death was energy in 1870 to I outst

Sir Denzil Ibbetson was manied in 1870 to Louisa Clarissa, daughter of the late Samuel Coulden, by whom he had two daughters



THE LATE SIR DENZIL CHARLES JELF IBBETSON, & CSI, 1CS, Late Lieuten int Governor of the Punjib

SIR WILLIAM OVENS CLARK, ICS, KT,

Chief Judge of the Chief Court of the Punjab

IR WILLIAM OVENS CLARK, ICS, KT, Chief Judge of the Chief Court of the Punjab, Lahoie, was born in 1849, and is the son of the late James Jackson Clark, DL of Laigantogher, Londonderry He was educated at Portora School, Enniskillen, and at Trinity College, Dublin where he took his degrees of BA and LLB He was ap-

was Deputy Commissioner of Lahore In 1891 he was appointed Sessions Judge at Peshawar where he remained until 1895 In the following year he officiated as a Judge of the Chief Court of the Punjab Lahore, and was made permanent in the post in 1898 Later on, in the same year, he was appointed Chief Judge of the Chief Court, Punjab which position he has held



SIR WILLIAM OVENS CLARK 104, k1, Chief Judge of the Chief Court of the Punjib

pointed to the Indian Civil Service in 1869, and arrived in India in 1871, when he was posted to Jullundur as Assistant Commissioner. In 1874 he was employed on Famine Relief operations at Gya and Champaran and afterwards served as Assistant Commissioner in several districts of the Punjab. From 1883 to 1889 he

ever since Sir W O Clark is a Barrister-at-Law of the Inner Temple, having been called to the Bar in 1881 In 1885 he married Florence Emily, daughter of Robert Lawrie, by v hom he has two sons and one daughter He was knighted at the Delhi Durbar in 1903 and is a member of the East India United Service Club

THE HONOURABLE SIR JOHN STANLFY, KT, KC, BAR.-AT-LAW, Chief Justice of the High Court of the North-Western Provinces

IR JOHN STANLEY, who was appointed in 1901
Chief Justice of the High Court of the North-Western Provinces, which now form part of the United Provinces, is the eldest surviving son of the late John Stanley of Aimagh He was boin in November 1846 and was educated at the Royal School

of Armagh In 1865 he matriculated at Trinity College Dub lin and obtained a Royal Scholarship Inter on he gamed various honours in Classics and in 1868 became a Foundation Scholar of the University At his degree examination he secured a senior moderatorship in Classics and a gold medal Called to the Irish Bar in 1872 he joined the North-East Circuit and after some years of uphill work secured a considerable general practice principally on the Chancery Side of the In Dublin itself he had the reputation of being in the front rank of Chancery lawyers and for some years he was Standing Counsel for the Bel fist and Northein Counties Railway and for the Belfast Banking Co For six years he acted as Revising Barrister of the voters' list for the South Division of the County of Londonderry In 1892 he took 'sılk" and in 1896 was elect

SIR JOHN STANLEY KI KC, TAR AT LAW

ed a Bencher of the King's Inns On his appointment to the Judicial Bench in India in 1898 the Benchers of the King's Inns paid him the high compliment of electing him an' Honorary Member of their body

On his arrival in India in November 1898, Mr Justice Stanley first took his seat on the Appellate Side of the High Court, Calcutta, with a senior Judge. In 1899 he first took his seat on the Original Side of the High Court. It has seldom fallen to the lot of an Indian Judge, within so short a time as that in which Mr Justice Stanley presided in the Original Court, to

decide so many important cases in the different branches of the lav under the jurisdiction of that Court 1e, Original Civil (including Commercial cases) Matrimonial, Testamentary Intestate and Vice-Admiralty In public affairs he while in Calcutta took a prominent part He devoted much attention to the affairs of the District Charitable Society as well as to those of the Society for the Prevention of Cruelty to Animals and he was President of the last-named Society up to the time of his depar ture for Allahabad On the 5th July 1901, he received his appointment as Chief Justice of the High Court at Allahabad an appointment that was made on the special recommendation of His Excellency the Viceroy He was Viceroy He was knighted the same year

Sir John Stanley takes a keen interest in the Volunteer movement and is Honorary Colonel

of the Allahabad Volunteer Rifles He is Dean of the Faculty of Law in the Allahabad University Sir John was married in 1879 to the eldest daughter of the late Mr James Norris of Castle Hill Blechingley, Surrey

THE RIGHT REVEREND ALFRED CLIFFORD, D.D.,

Bishop of Lucknow

HE RIGHT REVEREND ALFRED CLIFFORD,
Bishop of Lucknov, was born at Torquay in
1849 He is the son of the late Rev J B
Clifford, who was a vell-known Clergyman at
Bristol during the latter half of last century. The
Bishop was educated at Redland knoll School and
at Corpus Christi College Cambridge After taking
his degree he was ordained in 1872 and became

language, he became Superintendent of the Church Missionary Society's large Mission in the Krishnagar District. He was then called to take the important post of Secretary at Calcutta for all the Society's Missions in Bengal, North-West Provinces, Central Provinces and Rajputana. In 1892 he was offered the Bishopric of Lucknow and in January 1893 he was consecrated. Bishop Clifford is the first Bishop



THE RE REV ATTACH CHIPTORD DD BISHOT OF LUCKNOW

Curate at St Nicholas Church, Nottingham, under the Rev G R Thornton In 1874 he offered for missionary work in connection with the Church Missionary Society He landed in India in November 1874 and for four years served at the Old Mission Church, Calcutta After a few months' furlough he returned to India, and, having qualified himself by learning the Bengali of the See of Lucknow, which is conterminous in area with what is now known as the United Provinces of Agra and Oudh The Cathedral of the See—already a singularly beautiful building, though not yet complete—is situated at Allahabad, where the Bishop resides In 1886 the Bishop married Catherine Amy Bernard, daughter of Dr Bernard of Clifton

THE LATE RIGHT REV WALTER RUTIVEN PYM, DD,

Late Bishop of Bombay

HE RIGHT REV BISHOP PYM was the third son of Mr Alexander Pym, JP, and was born in 1856 at Great Chesterford in Essex. The father of Bishop Pym was a son of Mr and La iy Jane Pym of the Hassels (Bedfordshire), and his mother was a daughter of Sir Albert and the Hon Lady Pell. His Lordship received his early education at Bedford Grammar School, and then became a member of Magdalen College (Cambridge), from which he graduated B \ in 1879, and took his M \(4 \) in 1883. His I ordship's first appointment was at Lytham, where he made the acquaintance of Miss Lucy Ann Threlfall to whom he was married on the Sth of

August 1883 and who died in 1904 He was next in chargeat Miles Platting dur ing the troublous time when the Rev S F Greene was released from the Lancaster Gaol This was followed by his appointment succes sively as Vicar of Went worth, as Domestic Chap lain to Earl Fitzwilliam, as the Vicar of Sharrow and Vicar of Rotherham from 1893 to 1898 On the 29th of September 1898, Dr Pym was consecrated Bishop of Mauritius, in Westminster Abbey On taking charge of the Mauritius Diocese, Dr. Pym immediately start ed consolidating all eccle sinstical operations in his new sphere. In his capa city is the Bishop of the Island His Loidship ener getically organized new work in the Diocese and sent a clergyman to the Island of Rodrigues, about 400 miles from the mainland, and also raised funds for a lady doctor to work among the Indian women in Mauritius Before His Lordship came to India he had thrice visited Ceylon Towards the end of 1903, he was appointed Bishop of Bomby and landed in

the chief city of his Diocese

On Lebrury 5th, 1904 Immediately after his appointment to Bombay, Bishop Pym was offered the Mastership of Magdalen College, his old college, but he declined this somewhat tempting offer, feeling himself pledged to the Diocese of Bombay which he intended to make his sphere of work. With a view to bring the various and isolated sections of the Bombay Diocese into active and himmonious co operation, Dr. Pym inaugurated what is known as the "Bombay Diocesan Church Society." The membership of this organization numbers in itself many very influential persons both from the clergy and the laity, and the Associa

tion has been doing excellent work along the lines it has marked out for itself. With a view to strengthen the Indian Christian Church by furnishing it with efficient ministers. His I ordship established in Poona, under his own roof, a smill "I raining College for Indian Clergy," and the Bishop and several of the local clergy voluntarily gave their services as instructors, the Principal being the Rev Mr. I. M. Has lope. The Libours of the Right Rev. Dr. Pym were not confined to the strictly defined sphere of his own church. His sympathies were extended to Christians of all denominations, as was evidenced by his falling an active part in the meetings of the Missionary Conferences held in Bombay and



The Late Right Rev WMTLK RUTHVIN PYM DD Late Bishop of Bombay

Poons As a preacher and a gifted speaker, the Bishop was vell known for his cloquence. Being i man of profound convic tions he ilias delivered himself with clearness and to the point. He was also noted for his fearlessness in Living expression to his convictions, and in exposing what he considered to he wrong and erroneous, but with consideration for those whose views differed from his own Bishop Pym was an educationist of some experience, having been a member of both the Rotherham and Shef field School Boards He had an unflinching faith in the elevating and uplift ing influences of a true and genuine education Although he was known to be a vigorous Evangel ical, few were prepared for the strong attitude he was to take up against some extreme practices prevalent in the Bombay Diocese, where much of the most vigorous educa tional and missionary work is carried on by the Society of St John the Evangelist and the Wantage Sister In the end he hood formally inhibited two

High Churchmen of whom one was the respected head of the Cowley I athers' Mission in the diocese. The two clergy appealed to the Court of the Metropolitan, who first withdrew the inhibitions ad interim, and after wards settled the matter by a compromise, which leversed the action of the Bishop as far as "children's Eucharists" were concerned. The late Bishop had been suffering from diabetes for some time past, and there is little doubt that the anxiety caused by this dispute hastened his end. He died it his residence near Poona on the 2nd March 1908



Licutement Colonicl JOHN ANDERSON, MB (Ldin), IMS, Civil Surgeon, Lucknow, was born in the year 1855, in Ireland He was educated at the Lamburgh University and took his desire of MB in the venr 1878 He entered the Indian Medical Service the same year and sime out to India in 1870. He first served in the second half o the Afghan Cumpugn He was then transferred to the North West Provinces (now the United Provin ces) He sirved is Civil Surgeon it Bijnore, Moridabid, Allihabid. Bucilly, and Mussoore, and was Civil Surgeon of Simla for a period of three years. He was Principal



Lieut.-Col John Andreson

of the Medical School it Agi i for three years, and for the past six years has held the position of Civil Surgeon at Lucknow He holds a med d for meritorious service in the Migh in C imp ngn is a Lellow of the AH chick id University, and a Member of the Butish Medical Association

Mr ARIHUR HENRY ASHION Executive Engineer,



Mr. A. H. ASHTON

Public Works Department United Provinces was born in 1862 at Rangiora, Christchurch, New Zeiland, and was educated at Christchurch. He entered the Indian Public Works Department in 1883 has first service being in Kumaon, and he was subsequently appointed to various districts in the North-West Provinces. His services in connection with the famines of 1896-97 and 1899-1900 obtained for his work the special mention of Government. From 1896 till 1903 he

held the post of Divisional Engineer at Jhansi, Allahabad Tyzabad and Lucknov Divisions respectively. He vas appointed on special duty to Nam Ial in 1906

MI HLWILY MORTIMER BAINLS, Under Secretary, Buildings and Roads Branch, Public Worls Department, Punjab, Lahore, was born in New Zealand in 1865. He was educated at Repton School and Cooper's Hall Engineering College, where he passed out successfully in 1888, coming out to India in 1869 is Assistant Engineering the Served in the Toch Valley in 1897, and was awarded the India Medal with Punjab Frontier, 1897 98, clasp He was



Mr II M BAINES

promoted to Executive Engineer, 1st Gride, in 1905, and appointed Under-Secretary in 1906

THE RIGHT REV GEORGE ALFRED LEFROY, D.D., Bishop of Lahore

HE RIGHT REV GEORGE ALFRED
LEFRON DD, Bishop of Inhore, v is born
in County Down, Ireland, in 1854. He is the
f son of the Very Reverend Jeffrey Lefroy
Dean of Dromore, and grandson of Chief Justice
Lefroy, of the Queen's Bench Ireland. He was edu
cated at Marlborough, and Trinity College Cambridge,
where he took a first class in the Theological Tripos
He was ordained in 1879, and joined the Cambridge

Mission in Delhi the same year Twelve years later, in 1891 he became head of the United Society for the Propagation of the Gospel and Cambridge Mission In 1899 he was made Bishop of I ahore

The whole of Bishop Lefroy's pastorate has been spent in Northern India and his career in I ahore has been marked by vigorous administration and much plair speaking He had mad a special stuay of the shortcomings of Europeans in this country their mode of living their neglect of religious duties and observances, and their devotion to things appertaining to this world only He has never hesitated to ventilate his opimons on these matters, and to call to account not only the particular congregation to which he was addressing him self at the moment, but the European com munity in general, for their bridge-playing, dance loving, gam-bling, and frivolous

propensities These, he maintains are not calculated to ruse the European standard of morality in the eves of the natives of the country. On the part that should be taken by the Church in secular education, he holds strong views, and in the course of a recent visitation charge to the clergy of his diocese, he referred to the Church's responsibility in respect to the educational institutions for Europeans and Eurasians carried on under Anglican management. The very largely

mercased measure of financial help now received from Government must lead to mercased State control and he believed this could be arranged for vithout difficulty or interference vith the religious or moral ideas of the clergy in connexion vith the schools. He is of opinion that Government will also expect from them a larger outlive of their over to assist in raising the schools to higher standards and methods of education. The obligation is not all on one side however, for Government

over a great debt to the Church and other rel giouscommunities for taling upon them selves in the past the burden of providing for the education of Furopean and Iura se in children in India i burden i hich must otherwise have been accepted by Government itself. The grants in a d given in the past the B shop mountons have been insigniiltogether heant compared with the expenditures buch would have been forcedon the Government had it been compelled to maint un schools of this class on its own account But, when all this had been said the Bishop felt that the logical, the mevitable result sooner or later, of this more generous, more sympathetic ittitude of the Government would be a desire that the Church move should also therd in the matter, that their proportion of outlay should be larger, their staffs more adequate and



THE RIGHT REV GEORGE ALTERD I EFFOY DD

effective, and altogether their own side of the business more worthily managed

Bishop Leftoy is a strunch advocate of anything practicable that will tend to promote a better state of feeling between Europeans and natives of the country. He shows, perhaps, an undue tendency to lay the chief blame upon his own countrymen for the present state of tension between the races, a position in which, however, he by no means stands alone

been, to his brother Mr William Micherson MA Bu it-Law, who at that time held the offices of Mister in Equity Registrar and Account int General of the Supreme Court Through this introduction he obtained in appointment is subordinate clerk in the Master's office, and was afterwards promoted to Chief Clerk in the Registrins office and subsequently to Deputy Registrar of the Court His abilities and industry attracted Mr Mac pherson s attention and laid the foundation of a life long friend-lup with his patron. Mr. Macpherson's friendship tool a practical shape Under his guidance Mr Belch imbers pursued his legil studies and prepared himself for the law examina tion, which led to his admission is an attorney. To the advice and assistance of his master. Mr. Belchambers attributes the success which his attended him through Belchambers' services have been many and remarkable His long service in the High Court extended from 1848 to 1800. He performed simultaneously the duties of Registrar, Accountant-General, Taxing Officer Chief Clerk of the Insolvent Court, etc. His services include the furnishing of many important Notes, among which was a Note "On the Bill to Consolid itc the Law relating to the Sherift, and to the execution of Decrees of the High Court " This Note was sub mitted to Government by the Another Note by his hand, Judgeon the Civil Procedure Code, wis specially acknowledged in the report of the Select Committee of the Governor General's Council He also prepared a set of Rules of Procedure, which were adopted by the Court, and some of which were embodied in the Civil Procedure Code He ilso published a book of Rules and Orders of the High Court, with notes and an index, which was added to the list of subjects of examination, both for vakils and attorneys, and a book of practice of the Civil Courts In addition to his multifarious duties, he revised the Rules relating to the admission of ittorneys, so is to entitle attorneys of the High Court to the benefit of the Colonial Attorneys' Relief Act, and propured Rules under the Trunsfer of Property Act - He also prepared other Rules, which were

published separately These convey but a slight indication of the great labours which Mr Belchambers performed during his half century of service. His personality guned him the respect and friendship of all with whom he came in contact. On his retirement he received from Sn Triners Miclean Chief Justice, a friendly and culogis tic letter in which his circur wis illuded to in most flittering terms Among other things Sir Trincis wrote 'Your most valuable cucer has cheited from all quarters nothing but pruse and it has obtained for you extension of service unpiralleled in the circui of any Indian official In the year 1000, twelve months after his retirement, the Attorneys of the High Court did Mr. Belch imbers honour by instal ling his portrait in the Attorneys Library at the High Court Su Trancis Miclean CJ, presided at the unveiling ceremony, and among the large gathering present were included all the Judges not absent from Calcutta and the most distinguished members of the Bir and other branches of the legal profession. On this occasion a presentation was made to Mr. Belchambers of a handsome silver tea service Belch imbers' service dated Mr from almost pre historic times, the legal world he entered as a youth wis very different from the existing one He was the last Registru of the old Supreme Court and the first Registrir of its successor, the present High Court He remembers the time when there were no Judges of Indian descent, no Indian Burnsters or Attorneys His reminiscences include the Indian Mutiny of 1857, the assumption of the title of Empress of India by Queen Victoria, the visit of the Prince of Wales, now King-Emperor, and all the curious, epoch making happenings of the Indian Empire during the sixty years since his arrivil as a boy in Calcutta

Chev G BEIFONI, Vice Consul for Italy (Officiating Consul during the absence of Dr Gorio), was born at Bieseia, near Milin, Italy, in the year 1875. He wis educated it Milan and holds a high degree in Classics. After finishing his education he trivelled abroad

to obtain a knowledge of different languages. He came to India in the veri 1900, to take charge of the management of the "Societa Filatura Cascami Seta" of Milan in Bombay, the largest firm in the world in silk waste varn manufacture, and is still looking after the firm's business. He was appointed vice Consul for Italy in the year 1904

Incuted and Colonel GEORGE FREDERICK WILLIAM BRAIDE, MB, Behir Victoria University (Manchester), MRCS, Fing, IMS, Inspector General of Prisons wis born at Kasauh, India, in the veir 1862 and educated at the Owen College, Manchester



Lieut Col G T W BRVIDE

He obtained his MB and B Chir degrees in 1886, and joined the Indian Medical Service on the 31st March 1887, arriving in India in November of the same year For about three and a half years he was in military employ, but joined the Civil Medical Service, Punjab, in 1890, and was appointed Superintendent of Juls in Mooltan, China win ind Lahore, respectively. He was in charge of the Lahore Central Jul for thirteen years, and was it length permanently appointed Inspector General of Prisons, Punjab, in 1906, which position he still holds

Lieutenant Colonel CHARLES JAMES BAMBER, DPH (Cantab), MRCS (England), LRCP (London), Sanitary Com missioner and Professor of Hygiene,



Lieut Col C J BAMBER

Medical College, Lahore, was born in 1855, and educated at the Bedford Grammar School, and St Bartholomew's Hospital, London He took the MRCS and LRCP in 1878 and the DPH in 1892 He joined the Indian Medical Service in 1878 and came out to India in the following year

For the first nine years of his service he was in military employ. In 1881 he served in the Mahsud Waziri Expedition, being in medical charge of the Cavalry Brigade. He again saw active service in Burma in 1886 87, receiving the medal and clasp.

In 1888, he was posted to the Punjab as Civil Surgeon, and work ed in that capacity in several districts For five years he was Civil Surgeon of Rawalpindi

In 1897, he was afforded another opportunity of seeing active service by joining the Malakand Field Force. On this expedition he cirried with him an Xiay apparatus. For his services he was awaided the medal and clasp.

He was eventually appointed, in 1900, Sanitary Commissioner with the Punjab Government, and Professor of Hygiene, Medical College, Lahore

At the Delhi Durbar in 1902, he was appointed a member of the Central Committee, and placed in administrative charge of the medical and santary arrangements of the Civil camps. These one-rous duties he carried out successfully, and when the Durbar broke up he received the thanks of the Government of India.

He is a Fellow of the Royal Statistical Society of England

The Hon'ble Mr Justice PRAMADACHARAN BANLRJI, BABL, JP, Pusae Judge of the High Court, Allthabid, is a native of Uttaipara in Bengal, and was born on the 10th of April 1848 After acceiving his education at the Presidency College, Calcutt, he

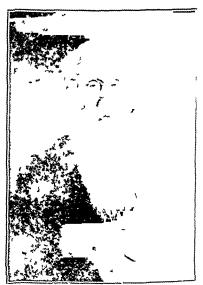


Hon Mr Justice P C BINERII

graduated in the Calcutta University in 1867, taking a high place in the After obtaining the first class degree of Bachelor of Laws of that University he practised for a short time in the Allahabad High Court as a pleader, and then entered the Judicial Service of the North West Provinces He had a distinguished career in that service and lose to the top in the short period of clever years In 1886, he was appointed Judge of the Small Cause Court at Allahabad, an appointment till then reserved for members of the Covenanted Civil Service only In 1893, he was appointed Additional

Judge of Lucknow, and in December of that year was elevated to a seat in the High Court of the North West Provinces, in office which he still holds. He is a Fellov of the University of Allahabid indivas three elected President of the Laulty of Liv. He is a member of the Syndicite and of several sub-committees of the University. He is President of the Committee of the High Court Legal Prictitioners' Examination and also of the Council of Liv Reporting of the Allahabid High Court

Mr ROBERT BETCHAMBERS, Registrar of the High Court at (ileutta (retired) v is born in the North West Provinces of India, on the 7th December, 1830. His fither was in the service of the Hon Last India Company and came to this country in 1817 This gentleman had the misfortune to lose his sight, and the circumstance so told on the fortunes of the family that Mr Robert Belchambers was indebted to the kindness of two of the carly Baptist missionaries for his education. He relieved his parents of his maintenance at the age of fifteen, and came to Calcutta to seek em



Mr k bitchwifts

ployment when he was eighteen years of ige. He had the good fortune to obtain in introduction from Major Macherson in Political employ, in whose service he had

and is the son of Col H II Cole. He was educated at Well ington College and came out to India in 1800 when he joined the service of Government in the Police His first appointment vas as Assist int District Superintendent of Police at Burcilly His promotion has been extremely rapid as her as appointed to the substantive grade of District Superintendent in a record is being the voungest District Superintendent in the service. He was in charge of the Lucknov District from 1801 but has recently been transferred to Muttri

The Hon Mr R H CRADDOCK csi Chief Commissioner of the Central Provinces vas born in 1864 and is the son of the late Surgeon-Major William Craddock of the 1st Goord has Hexas educated it Wellington College and it Keble College Oxford and entered the Indian Civil Service in 1884 In December of that year he was posted to the Central Provinces i here the whole of his service has been spent. After the usual period of service is Assistant Commissioner he was engaged for five years on Settlement work, and for a further period of five years in Secretariaty orly being appointed Chief Secretary to the Chief Commissioner of the Central Provinces in 1900. In verts liter he was appointed Commissioner of Nigpur, and in the following year he vas made a Companion of the Order of the Star of India

The chief literary vork on which he vas engaged during this period included the Settlement Report of the Nagpur District and the two Reports on the Famines of 1896-97 and 1899-1900. He attended the Conference in 1893 in connexion with the Cadastral surveys of Behar at the invitation of Sir Anthony MacDonnell. He vas also deputed to represent the Central Provinces in 1894 at a Conference regarding I and Records convened by Sir Charles Elhott in Calcutta

In Mirch, 1907, Mr Craddock vis appointed Chief Commissioner of the Central Provinces and Berar, which latter area vis amalgamited with the Central Provinces in 1902. Since he assumed charge of the Administration the principal mat-

ters that have occupied his attention have been the famine so far as it affects the Central Provinces, various experiments in connexion with the crops, and sanitary improvements in the city of Nigpur With regard to the fimine the distress urising from the fulure of the Monsoon although it was serious was at no time so great as in the neighbouring provinces and the position was rendered less critical by the advent of timely ran-But it the beginning of 1905 the Government v is forced to review its financial position in order to decide what allotments should be made for famine relief and what services could be reduced for that purpose. At the beginning of the ver 70 000 people vere in receipt of relief but the ordinary relief vorls vere sufficient in most districts to provide for the requirements of the labouring classes Village works were opened in two districts and special relief vas given to ververs gratuitous relief bong ifforded to other classes With regard to crop experiments a fur measure of success attended the various experiments carried out by the Government to discover suitable additions to the commercial crops of the Chattisgarh Division The most interesting vere those connected vith jute the cultivation of which under the supervision of in expert from Dacca is being attended with encouraging results In mining concessions there has been something of a boom and the Government has been flooded vith applications for prospecting and mining concessions many of the applicants being Indians, and Indian capit il being largely utilized Manganese, coal iron and other minerals have been discovered in various places and hopes are enter tuned that there is a great future before the Central Provinces in the development of its mineral icsources. In municipal matters, the Hon Mr Craddock has shown great interest and his previous S rvice as Commissioner of Nagpur has enabled him to fully appreciate the needs of the chief city lo relieve the congestion in crowded localities, the Government has acquired and hunded over to the Municipality extensive plots of land in the outskirts of the city,

new roads are being made, the new vater-works scheme, which will relieve the uncertainty of the present supply, vall soon be an accomplished fact, and another large scheme that of the drainage, is nearing completion

The Hon Mr Craddock was married, in 1888 to Frances Hemietta youngest daughter of General H. R. Browne. He is a member of the East India United Service Club.

Mr HENRY DUFFILLD CRAIK, BA, ICS, Registrat Chief Court, Punjab I ahore, was born in January, 1876, in England, and educated at Lton, and at Oxford University where he took the BA degree in 1808. Passing into the Indian Civil Service Lewis posted to the Punjab, where he served as Assist and Commissioner in several districts, on plague and general duty. He officiated as Registrar, Chief Court, Punjab, from April to October 1903, and was appointed substantive Registral in March 1905.

Major RICHMOND IREVOR CRICHION Indian Aimy, Superintendent Bengal Service Survey of India, was born in 1864 at Calcutta, and educated it Edinburgh, Scot land He joined Sandhurst College in 1883, and thence entered the Army, being attached to the and Battalion Highland Light Infantiv ın 1884 The same year he arrived in India He served with H I I for about five years, until, in October 1889, he was admitted to the Bengal Staff Corps and the same year ap pointed to the Survey of India as Assistant Superintendent Till 1891 he served with this Department in the North-West Provinces, and in November of that year was trans ferred to Bengal, where he was in charge of the Cadastral Survey in Orissi In 1893 he was appointed to the charge of the Behn Survey, and in 1805 was gizetted Superintend ent of Provincial Surveys, Bengal, which appointment he now holds

The Hon'ble Mi Justice DINSHA DHANJIBHAI DAVAR, the first Pusee Judge on the Bench of the Bombia High Court, was born on the 6th of November in the year 1856 He commenced his education in the Proprietary High

Mr FRANCIS EDWARD BULL, Executive Engineer, Irrigation De partment, P W D, Bareilly, was born in England in the year 1866 and was educated at Marlborough After passing through the Cooper's Hill College, he worked for one year on the Manchester Ship Canal, to gain a thorough and practical experience of his profession He came to India in the year 1890, and the same year he joined the service at Rurki as an Assistant Engineer One year later he went to Aligarh, and after serving there for two years he was transferred to Meerut where he remained for three years In the year 1807 he went to Cawipore as an Ex ecutive Engineer, and after serving there for five years he was transferred to Bareilly in the year 1901, where he continues as an Executive Engineer in the Irrigation Department

Lieut Col ROBERT NEIL CAMPBELL, MB, CM, IMS, Civil Surgeon, Dacca, was born on the 24th September 1854 and educated at Edinburgh He joined the Indian Medical Service on 1st October 1877,



Lieut -Col Robert Neil Campbell

and until the year 1883 was in military employ. In that year he was appointed Civil Surgeon of Terpur, Assam. In this capacity he subsequently served at Shillong and Gauhati till 1896, when he was appointed to officiate as Senior Medical Officer and ex-officio Assistant Superintendent at Port Biair

in the Andaman Islands In 1896, he returned to Gauhiti as Civil Surgeon and was subsequently transferred to Shillong In 1900, he was appointed Superintendent of the Purnea Jul, and in the same year made Civil Surgeon of the Ist Class, and in 1901 appointed to Dacca He was appointed Lieu tenant Colonel and specially selected for increased pay on 1st April 1904

War Services—\ L Frontice
of India, Naga Hills, 1879 80
Despatches G G O 123 of 1880,
Medal with clasp Kaiser i Hind
Medal 1st Class, 1900

The Hon'ble Mr Justice PROFUL CHANDER CHATTERJI CIE, Peiminent Judge, Chief Court, Punjab, Lahore, was born in



Hon Mr Justice P C CHATTERJI

Calcutta in the year 1848, of an ancient and distinguished but decayed Kulın Bıahmın family received his early training in the School of the General Assembly, Scotland, in Calcutta, and took his degree of M A in 1869 He became Bacheloi of Laws in 1870, and after being enrolled as a vikil of the Calcutta High Court, removed to I ahore to practise at the Bar of the Ch ef Court, Punjab, where he quickly established a large practice. In 1886 he was appointed a Muni cipal Commissioner of Lahore by the Government He remained on the Board till 1895, when he re

signed on being nominated Judge of the Chief Court, in which post he first officiated in 1889, and was permanently appointed in 1894 He became a Fellow of the Punjab University, by election, and was appointed Secretary to the Law Faculty, and elected Dean of the Faculty in 1898 On the reconstitution of the Punjab University in 1995, he was reappointed i Fellow and still holds the office He has been Examiner in Law and other subjects to the University on several occasions, and materially helped Sir William Rattigan, the Vice Chancellor, in firming the rules and regulations of the old University, for which service he was awarded the title of Rai Bahadur He is Presi dent of the Punjab Public Library and of the Victoria Diamond Jubilee Hindu Technical Institute, founded in 1897 He was made a CIE at the Delhi Coronation Durbar

Mr Chatterji was also appointed Vice Chancellor of the Punjab University in 1904. He takes a keen interest in Freemasonry, has passed through all the degrees, and holds the rank of Past Deputy District Grand Master.

Mr GEORGE SUNNERLY CARMICH \EL COLE, Superin-



Mr G S C COLD

tendent of Police, Lucknow was born in the year 1872 in London,

of the Punjab Inigation Depart ment, Messrs Preston and Benton, to whom he acted as personal assist ant. Two schemes were drawn up for the Lower Barr Doab Canal, and one for the Upper Chenab Canal, and on the plans thus formulated, luge canals are now under construction. By the Imigation Branch his services have twice been lent to the Government of the North West Frontier Province, to advise on imigation matters in the Bannuland Gumal Villeys.

Mi Davis is now in charge of the Lower Bair Doals Charl Construction Cycle, and has in addition several other surveys and projects in hand, the principal of which are connected with the control of the Kurram and Gumal rivers for irrigation in the Bannu and Dera Ismul Khan Districts on the frontier, and for the construction of were and canals for irrigating the Sutley Valley and the desert uplands of Bikan riand Bahawalpur

Mr E HALDEMAN DENNISON. Consul for the United States of America, Bombay, was born in Columbus, Ohio, U S A, in the year 1872, and was educated at Yale College and St Paul's School, Concord, New Hampshire In the year 1892 he went to the West, and was appointed Agent of Navajo Indians in 1894 He was after wards transferred to Washington Indian Office in 1898 In the year 1903 he entered the Consular Service and was sent to Canada, and in 1906 he was transferred to Bombay as Consul for U S A He is the grandson of the late M1 William Dennison, who was Governor of Ohio, U S A, and afterwards Postmaster General in the Cabinet of President Lincoln

The Hon'ble Mr STEPHEN FINNEY, CIE, Manager, North Western Railway of India, and Member of the Punjab Legislative Council, was born in Figland in 1852 and educated at Clifton College He entered the Indian Engineering College, Coopei's Hill, whence he passed into the Indian Public Works service in 1874 His first appointment was as Assistant Engineer, Eastern Bengal State Railway, in charge of Rungpur Sub Division In 1877 he was

placed in charge of the Jalpaigun District as District Engineer, and in the following year appointed Assistant Manager, Northern Bengal Railway, at that time not yet amal gamated with the Eastern Bengal State Railway. This post he held til the year 1882, when he was transferred to the Southern Mahratta



Hon Mr S FINNEY

Railway as Assistant Chief Engi In 1884 he went on furlough aid on his retuin was appointed again to the Eastern Bengal State Radway as Assistant Manager The Eastern Bengal and Northern Bengal Railways were amalgamat ed in the year 1887, and Mi Finney neceived the appointment of Deputy Manager of the combined systems In 1891 he was promoted to the post of Manager of the com b ned systems, and this appoint ment he held till 1899, during which period he did excellent service in bringing the tem under his charge to a high degree of efficiency. In the latter year he was transferred as Manager to the important North Western Railway This system is second only to the East Indian Railway in point of commercial importance, taking second place, so far as gross earnings are concerned, and being in this respect far in advance of any other Indian railway, with the above exception From a stra

tegic point of view the North West ern Railway is the most important in India, as here the lines of railway which protect the N W Frontier, converge The selection of Mr Finney for the onerous post of Manager of this great system is a sufficient testimonial to the esteem in which his services are held by the Government of India In 1905 Mr Finney was appointed a Member of the Punjab Legislative Council, and he has received the Companion ship of the most Eminent Order of the Indian Empire

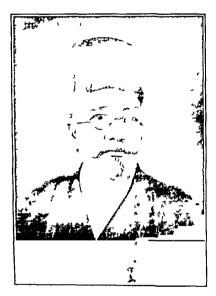
M1 JOSEPH EDWARD GAB BETT, Consulting Engineer for Rail ways, Lucknow Cncle, was born in Ireland in the year 1855. He received his primary education at Cheltenham College, and afterwards joined the Poyal Indian Engineering College at Cooper's Hill, from whence he passed out in the year 1877 and was posted to the Burma Railways as an Assistant Engineer. He was transferred to India and joined the Raiputana Railway in May 1878. In 1885 his services were lent to the



Mr J E GABBETT

Bombay, Baroda and Central India Railway In 1888 he officiated for nine months as Manager of the Jodhpore Railway From 1889 to 1893 he was engaged in the construction of the railway from Jodhpore to Bikanir, and from the year 1893 he was

School, Bombay, from where he passed the University Entrance Examination He then joined the Elphinstone College during the time of Sir Phillip Wodehouse and Mr Ovenham In College life he was not only bright and foremost in his studies but was also prominent in football, cricket, and amateur theatricals His contemporaries in College were Sir Jamsetjee Jijibhoy, the late Dastur Peroze Jamasp, and Mr Jehangir Dossabhoy Framjee In 1877 he went to England and joined the Middle Temple, and was called at the Timity Term of 1880 He was admitted an Advocate of the Bombay High Court in August of the same year. At that time



The Hon Mr Justice D D DAVAR

there was a glut of Barristers at the High Court, but he sought other fields and soon distinguished him self at the Small Cause Court for his istuteness and grasp of commercial questions, and in the Police Courts by 11s conduct of criminal cases In the Durant Blackmailing Cisc and the Tilak Case he tought with great ability, and distinguished himself in cross-examination. In the latter case he was associated with the late Mr. Push of Cilcutta He was also Junior Counsel to Sir Griffiths I vans when he fought out the great Partition case known is the Moolji Jetha Case Mer 1896, he gave his undivided attention to the High

Court, and from 1898 his career has been one of uninterrupted success He has been entrusted with a very large number of briefs, entailing long and aiduous hours of labour His practice was a very lucrative one, especially in commercial cases on which he brought a wonderful knowledge of native book keeping He was also recognised as to bear one of the cleverest cross examiners criminal cases The Junior Native Bar owe him a debt of gratitude for the manner in which he fought for the equality of rights of Native and European Bar risters practising in the Bombay High Court He broke down all the distinctions that had hitherto existed, by his individuality and the able and hearty manner in which he co operated in cases with Messrs Macpherson, Lang, and other leading lights of the local bar In accepting the post of Judge in the Bombay High Court, Mr. Davar gave up a large practice, but the appointment could not but be gratifying, as it was not of his own seeking His nomination as a Judge was gazetted in London on the 19th of October, 1906 Mr Davar's various attainments, and his great experience of the different Courts of Law in Bombay, specially qualify him for the post he has attained

Mr JAMES GOULDING DAVIS, Superintending Engineer, Irrigation Branch of the Public Works Department, Punjab, India, was born at Rurki, 12th February 1858, and educated at Bishop Cotton School, Simla He graduated as an Assistant Ingineer from the College of Civil Engineering at Rurki and was appointed to the General Branch of the P W D on 6th October 1879 He was employed for 15 years in the districts bordering the N W Frontier, principally on the construc tion and maintenance of frontier roads and posts The most important of the frontier roads on the construction of which he was emploved, are the main road extending from Khushalgarh on the Indus through Kohat and Bannu to Dera Ismail Khan, that from Kohat up the Miranzai Valley to the Upper Kurram Valley, and the military road from Oghi to Darband along

the Black Mountain frontier of the Hazara District He was several selected for employment beyond the frontiers of the Derajat. Kohat and Hazara Districts and his services were lent to the Political Department in connection with the opening up of the Gumal Pass in 1890 91, by the construction of the first road with military posts from Murtaza to Khajuri Kach, and the bridging of the Gumal River For his work in the Gumal Pass he neceived the thanks of Government He was, soon after his return to the P W D, again transferred to the Political Department and sent up to the Kurram Valley (1893 94), where he built the station of Parachenar



Mr J G Davis

with its fort and militia lines, directly under the southern face of the Sufod Koh Mountains, and guarding the Piewar Kotal Pass into the Hariob Villey on the west, and the Argam Pass into Ningrihar on the north, and dominating the Afghan Province of Khost on the south

In 1895 his services were transferred to the Irrigation Branch of the Punjab, and he served at first on the Barr Doab and Western Jumna Canals From 1900 onward he has been chiefly connected with surveys on and between the Sutleyand Ravi Rivers for irrigation schemes, and in the preparation of projects under two Chief Engineers

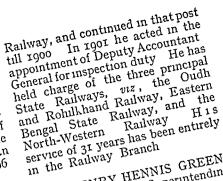
THE CYCLOPEDIA OF INDIA

his reputation standing very high es an able, fearless and conscienes an anie, rearress and consolerations lawyer. In 1884, he was 19pointed a member of the Bengal Tracancy on the Bench occurring in the year the Ser Richard Garth, then 1885, Sir Richard other Judges Chief Justice, and the other Judges of the Court nominated Vir Ghose for the past and the appointment for the post, and the appointment was duly confirmed by Her Vajesty's Government In the same ty's Government in the Stine vear, he was appointed a Fellow of the Calcutta University, and was the Calcutta of the Faculty of Lay for three years for three years He has held the

sible under the British Government than to be, or to act for, the Chief Justice of Bengal It should be Justice of Bengal It Should be added that Sir Chandra Madhub Ghose has for some years been known as an earnest social reformer, and is the practical leader of the Bengal Kyasht Shobha He acted as President of the Indian Social Conference in December 1906

Chev Di G GORIO, Consul for Italy, Bombry, was born at Brescia, near Milan, Italy, in the Brescia, near Me was educated in Year 1872 He was educated of Yenice and took the degree of Venice in the Ilmurraty of Yenich DCI, in the Ilmurraty of Yenich DCL in the University of Munich After acting at the Italian Consulte at Beilin, he came to India in 1903 as Consul for Italy in Rombos in Bombay

Mr WILLIAM BORNAN GRAY Chief Examiner of Accounts, North-Western Railway Lahore, was born in 1854 at Ca npore He vas sent to England for his education which he received at Wellington College, ne received to India, and In 1875 he returned to India, and Joined the Public Works Department



Mr. HENRY HENNIS GREEN, (R I E College), Superintending Engineer, Darleeling, was born in Ireland on 21st July, 1862, and



Chev Dr G Gorio highest distinction which the law nignest distinction which the law has to bestow for over twenty has to bestow for that time has years, and during that time has earned a great reputation for his grasp of facts, for the soundness of his law, the wisdom of his decisions, and for his independence He has thoroughly justified, during the whole of his long correct the whole of his long service, the promotion which raised him the promotion which raised the promotion which raised the promotion which promotion the promotion with promotion the promotion the promotion the promotion which promotion the promotion the promotion that the promotion the promouon which raised. He to be a member of the Bench. He is now the Senior Puisne Judge of the High Court, and was recently appointed to act for the Chief Justice in the absence of the latter, as his great countryman, Romesh Chandra Mitter, acted for the Chief Changra Mitter, acted for the Chief Justice of his day. In recognition of his services, His Majesty the King conferred on him July 1906 mity of Knighthood in July 1906. There is no higher distinction nos-There is no higher distinction pos-



Mr W B GRAY

in the following year, when he was posted to the Government of India Accounts Department, and, in the course of his service, he served in nearly all the Railway Offices con nected with the Government Audit In 1897 he was specially appointed to the Auditorship of the Assam-Bengal



Mr H H GREEN

loined the service in 1883 as Assistant Engineer For the next two ant Engineer For the next two years, his services vere utilized on the Indian State Railways In 1886 he was transferred to Baluchistan temperature but in 1888 returned temporarily, but in 1858 returned to the service of the Bengal Government He has usen through the various grades, during services which extend to most districts of Bengal, to his present position of Superinto his present position of Superintending Engineer Mr Green was in the Sikkim Expedition of 1888-89 and received the decoration He also served with the Thibet Mission of 1903-4. The was appointed to his present post in March 1903

Surgeon General JOHN PHILIP GREANY, MD, MCH, LM, INS, Was born in July 1851 and educated at Queen's College, Cork, and appointed as State Engineer to the Bikanir State, and also officiated as Manager of the Jodhpore Bikanir Railway from March to December 1894 and June to October 1895. He was Deputy Consulting Engineer for Railways at Calcutta from 1900 to 1903. In the year 1905 he was promoted to Superintending Engineer, and in December of the same year he was appointed Consulting Engineer for Railways, Lucknow Circle, in which capacity he is still serving.

The Hon'ble SIR CHANDRA MADHUB GHOSE, Senior Puisne Judge of the High Court of Judicature at Fort William in Bengal, was born at Bicrampur in the District of Dacca, in the year 1839, of a Kayastha family, his father being Rai Durga Prosad Ghose, Behadui, Deputy Collector In those days, Eastern Bengal, in which Bicrampui is situated, was not so advanced as it has since become, and there were small chances of obtaining the necessary education to fit the young Chandra Madhub for the battle of life in those parts The Kayasthas, however, wherever found, are an energetic class, of great in-telligence, claiming descent from Chitragupta of primeval and belonging to the class of Kshettriyas who in ancient Hindu times were the warrior caste and ranked next to the Brahmans Rai Duiga Prosad enacted the part of a wise parent and placed his son in the centre of learning in the Province, Calcutta, where he attended the Hindu and the Presidency Colleges, at that time the leading scholastic institutions for Hindu lads These were days before the introduction of the new University system in Calcutta, but in the very first year the University was established, the young student passed creditably the Entrance Examination Owing to ill-health, Chandra Madhub was not able or permitted to pursue his studies to obtain a Degree in the University, but was compelled to rest awhile in order to re-cuperate Later when restored to health, he rejoined the Presidency College, and subsequently joined the Law Class of that College with a view to qualify for a

forensic career. Here he had the advantage of studying law under a lawyer of commanding attainments in the person of Mr. William Austin Montriou, then Professor of Law at the Presidency College, and also Advocate of the old Supreme Court. Mr. Ghose did well under the able tuition of the eminent Professor. He was an eainest student, with great natural abilities, which fitted him for the profession, and he won the regard of Professor. Montriou in whose estimation he stood high, a good omen for the ultimate success of the present learned. Judge. In the twenty-second year of his life, 1860, Mr. Ghose passed with credit the



Hon Sir Chandra Madhub Ghose

Law Examination which authorized him to practise as a pleader His first venue was Burdwan where he met with success as a pleader Within six months he was appointed Government Plead er by the Government, at the instance of Mr Beaufort, then Superintendent and Remembrancer of Legal Affairs. His old friend, Mr Montriou, stood sponsor to him on this occasion. Having been asked by Mr Beaufort to recommend someone for the post, he mentioned Mr Ghose, which his knowledge of that gentleman's attainments enabled him to do without suspicion of favour Mr Ghose

did not retain the post long, throw ing it up on finding that he could not work in harmony with the local Collector He accepted a position under Government as Deputy Collector He held this position for a very short period only In this manner he was headed off by fate from travelling by avenues which would have led him away from the true goal which he has since attained, and the honours awaiting him A provincial pleadership under Government or the position of an Uncovenanted Civil Servant, however distinguished, would but ill have compensated him for his present elevated position Mr Ghose, after these tentative efforts, entered the line of his true vocation, and joined the old Sadar Court at Calcutta Before long, the Sadar and Supreme Courts which had been separate institutions from the beginning of British rule in Bengal, were fused into one, thus giving rise to the institution known as the High Court of Judicature at Fort William in Bengal Mr Ghose came to the Calcutta Bar with considerable experience gained in his Mofussil career, and though at that time there were Hindu advocates of brilliant abilities senior to him in the profession he acquired a fair practice from the beginning His old preceptor, Mr Montriou, had never lost sight of him, and at this time we find Mr Ghose acting for that gentleman as Pro fessor of Mofussil Law in the Presidency College during six months in the year In the great Rent case which was argued before a full bench of fifteen Judges, when Dwarka Nath Mitter (subsequently raised to the Bench) was opposed to Mr Doyne, a leading advocate of the day, Mr Ghose acted as Junior to Mr Mitter, and was considered to have rendered very efficient service to his chief Among his compeers, Dwarka Nath and Romesh Chandra Mitter (afterwards knighted and appointed a member of the Supreme Council) were raised to the Bench, where Mr Ghose has since followed them This left a clearer field for the rapidly rising advocate, and he soon attained leading rank and a very wide practice For some years, Mr Ghose held a position among Calcutta advocates second to none,

dency College In 1877 he went to England to complete his studies, and in 1880 he was called to the Bar In the same year he joined the Calcutta High Court He practised till 1887, when he was appointed Registrar of the Picsidency Court of Small Causes In 1907 he officiated for six months as the Chief Judge of that Court Mr Abul Hassan has always taken a keen and lively interest in the advancement-social and moral—of his community to his efforts is due the foundation of the well-known Calcutta Mahomedan Orphanage, which was founded in the verr 1895 and for which there was a pressing need, It is now in a flourishing condition and it is to be hoped that the public purse vill readily unloosen itself to support so philanthrophic an institution Mr Hassan belongs to a well-known literary family of Behar His father was the author of the 'Lives of the Persian Poets and his brother Khan Bahadui Khuda Buksh Khan CIL the wellknown Bibliophile, besides possessing a fine collection of Oriental MSS is the author of 'Mahboob-ul-Lobab," a work on the lines of the "Kitab-ul-Fehrist" of Ibu Nadiem

WILLIAM FREDERICK HESKETH, Calcutta, was born in 1840, and at 14 years of age entered an Engineer's shop in the East I'nd of London and there worked at the profession for seven years In the year 1861 he joined the Great Northern Rulway where he remained until 1865 when he proceeded to join the Mauritius Railway under covenant, staying with the island line until the close of the year 1872 In the beginning of 1873 h s services were entertained by the Cape Government Rulways for the special purpose of bringing out various locomotives from Messis Manning and Wardels of Leeds, to Port Elizabeth, South Africa, and there to erect them After performing this duty, he remained in charge of the Workshops at North End, Port Elizabeth He was subsequently employed to travel round the coast to repair Cape Receife and Bird Island Lights He was further employed as General Foreman of Works on Sunday River

Bridge, afterwards blown up by the Boers during the war In 1879 Mr Hesketh, having left South Africa, proceeded to join the South Indian Rulway under covenant as Shop and Loco Fereman, and was placed in charge of the Madura Workshops



Mr W I HISKITH

Subsequently he was transferred to Cuddalore to crect large new work shops for the Rulway, which, when finished, Mr Hesketh was given charge of He remained in charge at Cuddalore till he left the South Indian Railway in the year 1885 Mi Hesketh then joined the Burma Rulways as Head Fitter at the Insem Works In 1887 he was pro moted to Construction Foreman on the line from Toungoo to Mandalay, where Mr J W Buyers carried out the celebrated record of two miles a day construction. He was after wards Foreman of Yamethin station from 1888 to 1893, when at the re quest of Mr Buyers his services were transferred to the Assam Bengal Railway, on which line he served till the year 1901 when he had to leave the district owing to breakdown of his health He then again joined the Burma Railways but had to resign in 1903 owing to ill health Mr Hesketh then joined the Muishidabad Krishnagar con struction to erect and superintend the working of a large land steam dredger, and is still on the same work at Kanchiapaia

Captain FREDERICK CHRIS-TIAN HIRST, Indian Army. Officiating Deputy Superintendent, Survey of India, and Superintendent of Bengal Surveys was born in England in 1874 and educated at Bath College, and later at Sandhurst He joined the Army on February 20th 1895 being posted to the 96th Manchester Regiment He arrived in India on the 2nd April 1895 and served with the above regiment until appointed Wing Officer in the 22nd Bombay Infantry In 1899 he was appointed a Deputy Assistant Commissary-General and in the following year joined the Survey of India on probation as an Assistant Superintendent The rest of his service has been in this department during which time he has been stationed at Dehra Dun and in Behai Bengal Lastern Bengal and Chota Nagpore until he was promoted to the position he now holds

Mr EDWARD RALEIGH JARDINE Presidency Post Master Bombry was boin in the year 1858 in the Bombry Presidency,



Mr E R JARDINE

and educated at Southsea After completing his education, Mr Jardine was appointed to the Marine Postal Service in 1876 He was Assistant Mail Officer in 1876 and became Mail Officer in 1877 He

Rotunda Ho-pital, Dublin, graduat ing from the Queen's University (now the Royal Irish University) in 1874 He came to India in November 1875, was posted on general duty and attached to the Goculdas Tejpal Hospital, Bombay Among the many civil and military appoint ments which have been held by him, those deserving of notice are, his connection with the 10th, 18th, and 24th Bombay Nat ve Infantiv Regiments, the Civil Surgeonc es of Kaladgi, Kaira, Satara, Belgaum, Dharwar and Poona, at the last named place he was also Supe in tendent of the Byramji Jeejeebhoy Medical School He was Deputy San tary Comm ssioner, Southern Division, from 1878 79 and the tollowing year acted as Superintendent of the Yeriowda Central Jai', Poona Before acting as Secretary to the Sargeon General with the Government of Bombay in 1883 84 he held the post of the Superintend ent of the Colaba Lunatic Asylum, 1882 83 In 1902 he was re trans feired to the Military Department and deputed to Aden, and in the yen following to Kninchi, in both of which districts he was the P M O



Suron Cenl John Philli Greans

He assumed charge of the office of Surgeon General with the Government of Bombay in May 1905 Surgeon General Gieany was thanked by the Government and received six months' pensionable

service as a reward for work done in connection with the fain ne of 1877. He is a member of the British Medical Association, the Irish Medical Graduates Association, the Association of Military Surgeons of the United States of America, and the Bombay Medical and Physical Association

RICHARD The Hon'ble Mr GREEVEN, Legal Remembrancer to the Government of the United Provinces, at present officiating as 2nd Additional Judicial Commis-sioner for Oudh, was born on the 4th September 1866, in London, of German parents He was a Scholar and Exhibitioner of Dulwich College and junior student of Christ Church, Oxford He joined the Indian Civil Service on the 10th September 1887, and, having taken his degree of Bacheloi of Arts in the Law Finals and having been called to the Bai from the Inner Temple, he unived in India at the close of 1888, being posted as Assistant Magis trate and Collector to Benares He held various executive and judicial appointments until appointed an Under-Secretary to Government, subsequently acting as Judicial Secretary and as Legal Remembrance After leaving the Secretariat in 1897 he was employed, principally as D strict and Sessions Judge, in various d stricts, until, in 1900, he was appointed to offic ate, and was subsequently confirmed, as Deputy Secretary to the Govern ment of India in the Legislative Deputment During this period he took a leading part in the preputation of the Bill for the Revision of the Code of Civil Procedure, and was deputed to report on the laws and regulations of the Penal Settle ment at Port Blair He left the Government of India in 1904 for hs present appointment, and has since then been a Member and Secretary of the United Provinces I egislative Council Mi Greeven interested himself actively in the Volunteer movement as a Captain of the Simla Volunteei Rifles He is a Past Master of Lodge "Philanthrophy with Independence "EC, and holds the position of D G J D in the Provincial Grand Lodge of Bengal He has attained the 18th Degree and is a District Grand Sword Bearer in the Order of Knights Templir Mr Greeven has made a special study of Continental Freemasonry in the 18th century, and has written essays



Hon Mr R GREEVEN

und pumphlets on some of the more obscure forms of popular religion in Northern India

Mr HENRY DALY GRIFFIN, District and Sessions Judge, Luck 1 ow, was boin in Mayo, Ireland, in the year 1864, and was educated at Black Rock College, near Dublin He obtained a classical scholarship from the Royal University of Ireland and took his degree of Bachelor of Arts in the year 1885, from the same University He passed the open competition for the Indian Civil Service in 1883 and joined the same University He passed the open competition for the Indian Civil Service in 1883 and joined the same University He passed the appointed Judge of the Farrukhabad District, United Provinces, in 1893 Since then he has served as Judge in several districts, and in 1904 was posted to Lucknow In the year 1906 he officiated as Second Additional Judicial Commissioner of Oudh He has recently been appointed to officiate as a Puisne Judge of the High Court, Allahabad

Mr ABUL HASSAN, Third Judge, Small Cause Court, Calcutta, son of Moulvie Mohumed Bukhsh, a leading pleader of the Patna Bar, was educated at Patna College and subsequently at the Presi-

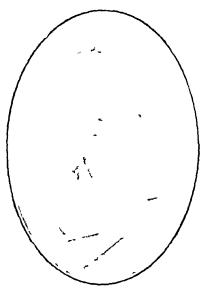
The Hon ble Mr Justice ALFRED AFNSINGTON BA 105, Judge, Chief Court, Punjab Lahore, was born in the year 1855, in Junea



Horble Mr. Justice Kr. St. CTON

and educated at Marlborough and University College Oxford came to India in 1877 is a member of the ICS, and was appointed Assistant Commissioner Labore early in 1878. Meer serving in several districts, he joined the Settlement Department in 1880 is Assistant Settlement Officer Hoshiarpur In 1853 ifter a short period is Under Secretary to Go vernment, he was appointed Settle ment Officer of Ambilla, continuing in the district as Deputs Commissioner on completion of the Settlement From 1800 to 1892 he served under the Government of India as Under-Secretary and Deputy Secretary in the Finance Department, reverting to the Punjab, on return from furlough in 1895, as Deputy Commissioner of Amritsar In 1896 and 1897 he held the appointment of Accountant General at Allahabid, till he joined the Judicial Department of the Punjab as Divisional Judge in November 1897 He has since remained in that department, serving in the Jullundur, Delhi and Lahore Divisions, and after acting as a Judge of the Chief Court during 1902, he was permanently appointed in that post in December 1904

Dr JOHN WALTER LLATHER, Ph D, FIC, &c, Imperial Agri cultural Chemist, and at present officiating Director of the Ignicul tur il Research Institute, Pusa, was born at Runhill in Lancashire on December 26th 1860. He received the principal part of his education as a chemist at the hands of August Kekule at Bonn, Germany, between the vens 1883 and 1880. There ifter, for six venis, he was semior is isting to Dr. J. A Voelel er at the Royal Agracultural Society of Fig. lind. He jained the Indian Agricul tural Department in November 189is Agricultural Chemist, which appointment he has held continuously The records of his work on Agricul tural Chemistry for India have been



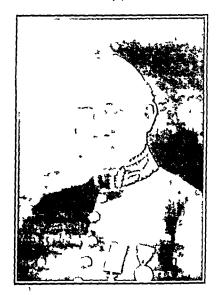
Dr J WAITER LEATHER

published chiefly in the Agricultur il edger and the Bulletins of the Provincial Departments, others are found in the Transactions of the Chemical Society, the Society of Chemical Industry and the Society of Public Analysts. Di Leather is a keen volunteer and has served through all ranks, from trooper to Captain, in the Delia Dun Mounted Rifles, in which Corps he still holds his Captain's commission.

Mr WILLIAM HERBERI I OVIGROVE, Deputy Conservator of Forests, Num I d Forest Division, United Provinces, was born in England in 1868 and

educated in that country He passed out of Cooper's Hill in 1889 and coming out to India, joined the Forest Department in Bengal as Assistant Conservator For the next seven years he served as Assistant and Officiating Deputy Conservator in various parts of Beng il, including Darjeeling, Chitta gong, Chubassa and Dumka He was transferred to the United Provinces in 1896, and in the follow ing very obtained his substrutive grade as Deputy Conservator In 1900 he went on long leave, and returning was, in 1903 deputed or special duty to report upon the forests of the Bhabar and Tarai Estates in the Naim Tal Districts In 1904 he was appointed to his present post whence, in 1896, he was sent to Bergal to officiate is Conscivator for three months

The Hon'bk Mr JOHN WILLIAM PHT MUIR-MACKEN ZIF MEACOUNCIL of the Governor of Bombay (Revenue and Finance) was born in the very 1854 in France and was educated at Lton College He passed the Unil Service examination in 1874 and arrived



Hon'ble Mr Mun MACKENZII

m India on the 28th November 1876, and was posted to Satara He became Assistant Collector and Magistrate in February 1877, and in 1878 was appointed Assistant Poli

was Superintending Examiner, Persian Gulf Division, from 1886 to 1888 Officiated as Deputy Post Master, Bombay, in 1889 was his next sphere of activity where he was Post Master in 1890 Mr Jardine was on special duty in the Director-General's Office in 1893 and was made Deputy Post Master, Bombay, in the same year years later Mr Jaidine was acting Presidency Post Master Bombay In 1899 Mr Jardine was Post Master of Rangoon From July 1902 to March 1903 he acted as Deputy Post Master-General Burma Mr Jardine became Presidency Post Master Bombay, in April 1903 Special mention was made of Mr Jardine to the Government of India in the Director-General's Annual Report of 1898-9, for in troducing the new and useful sistem of continuous delivery in Bombay Again in the report of 1900 or Mr Jardine is mentioned for stopping opium smuggling through the Post Offices Burma, and for organizing Postal arrangements in Once again, in the Rangoon 1903-04 Report, Mr Jardine's name figures for reorganising postal ar rangements in Bombay and for introducing a system of accurate postal maps of deliveries in the Presidency Towns

The Hon'ble Mi Justice DON LD CAMPBELL JOHNSTONE, ICS, Judge, Chief Court, Punjab Lahore, was born in 1857, in India, and received his education at the Edin burgh Academy Passing into the Indian Civil Service, he came out to India in 1879, and was appointed Assistant Commissioner, Lahore His services were placed at the disposal of the Bombay Government in 1882, when he was appointed Assistant Collector and Magistrate His services were next requisitioned by the Punjab Government in 1884, and he held appointments, first as Junior Secretary and later on as Senior Secretary to the Financial Commissioner, from 1887 to 1891, in which period he compiled an Excise Manual for the Punjab and wrote pamphlets on certain Punjab indus tries He was promoted to District Judge in 1891, which post he filled for two years He officiated as Divi sional Judge in 1894, and was made permanent therein in 1895 He was

placed on special duty is Additional Sessions. Judge at Kund in 1897, and again in the following veir he was placed on special duty to en



Hon Mr Justice D C Joursto 1

quire into the charges against Sudar Guidial Man Singh. In 1002 he officiated as Judge, Chief Court. He took up the officiating appointment of Temporary Additional Judge, Chief Court, Punjub, Lahore, in 1905, and was appointed First Lemporary Additional Judge the sumper, and Officiating Judge, Chief Court, Punjub, Lahore, in 1906

Mr GEORGE ALFRED KEAF INGE, Secretary and Superintend ent, Municipal Board, Mussoorie was born at Jullundur, in the Punjab, in the year 1856 He was educated at Hollyville Park College, Dublin He took his degree at Irinity College, Dublin, in 1872, and three years later came out to India in the service of the Railways, holding the post of Chief Inspector for many years After leaving railway em ployment, Mr Keatinge worked as a Contractor for Rulways in the Public Works and Canal Depart ments, and in 1897 he was appointed Secretary and Superintendent of the Municipal Board, Mussoorie Under his supervision the financial position of the Mussoorie Municipality has notably improved, the collections from taxes have been much

increased and expenditure in all departments greatly reduced. Since his appointment the very import int senerice scheme, which provided a shoot to carry all the Mussoone sewage to Bardru, his been curred out. At Bhiling it is turned on to the firm where fodder is grown for the conservancy curt bullocks. During recent years the nev hydro-electric scheme vas ntroduced, and the burden of the correspondence fell on Mr. Kertinge and ill the work in connection with it had to pass through his hands

Mr I DWARD AUSTIN KINDAII ICS Additional Sessions Judge, Meerut United Provines was born in 1871 in London and educated at Bedford Grammer School. He was a classical exhibitor of John's College Cambridge He joined the ICS on 5th September 1892, and came to India in October the same very and was first posted to Moradabad is Assistant Magistrate and Collector. He served in the same capacity, and as Joint Magistrate, in different districts till 1890, from which year he officiated



Mr E A KENDALL

as District and Sessions Judge On return from furlough in 1904 he was appointed to Meerut as Additional Judge there. In 1891 he was engaged on Special Plague duty at Hurdwar ber 1902 He was appointed Civil Surgeon 24-Parginas and Medical Inspector of Emigrants and subsequently Civil Surgeon of Haziribagh. His services were placed at the disposal of the Government of India. Home Department from 3rd April 1904, and he vis appointed Inspector-General of Civil Hospitals Central Provinces with rink of Colonel.

From 12th December 1904 to 20th February 1905 he was in military employ and on 12th February was promoted Colonel, and appointed Inspector-General of Civil Hospitals and Sanitary Commissioner, Burma On the 11th September 1905 he was appointed Inspector-General of Civil Hospitals, Bengil

He is the author of various papers on "Preventive Inoculation in Cholera" "Flies and Cholera Diffusion" "Salol in Cholera," "Cataract," "Litholapaxy," etc

Mr HENRY MARSH, MINST CI, CII, is the third son of the late Francis Marsh, Esquire, JP, of Spring Mount, Queen's County, Ireland He was educated at Kingstown School, Ireland Cooper's Hill, RIE College 1871 74 Passed



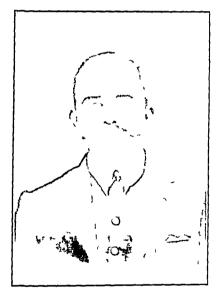
Hon Mr II MARSH

out of Cooper's Hill with first class honours in Mathematics Mr Maish came out to India in the year 1874 He was appointed Assistant En-

gincer to the Public Works Depart ment in that year After seven verrs' scrvice he obtained his grade as Executive Engineer in 1881 In 1807 he attained the grade of Superintending Engineer, and in 1902 he was appointed Chief Engineer and Secretary in the Irrigation Branch of the Public Works Depart ment of the Government of the United Provinces From 1905 to 1905, Mr Marsh was a member of the Legislative Council of the United Provinces He received the thanks of the Government of India and of the N-W Provinces for developments in the Irrgition systems of the Ganges and Jumna For his distinguished services how is decorated with the Order of the Indian Empire In the year 1905 the Hon ble Mr. Marsh came under the fifty five years' rule, and in the ordinary course would have retired from the service altogether. The Government of India were how ever, unwilling to lose the services of so experienced in officer In the Resolution upon the Report of the Irrigation Department of the United Provinces, by the Lieuten int Governor Mr Maish's name appears coupled with high encomiums. The Resolution states "Mr possessed a remarkable power of inspiring his own enthusiasm in his fellow workers and to him the Local Government is greatly indebted not only for admirable administration of the Department and many improve ments on the old canals, but also for a well considered programme of extensions and new projects especially in the dry trict of Bundel khand" I way was found of retaining his services and the Government of India through the Public Worl's Secretary wrote to the United Provinces Government offer ing Mr Marsh the appointment of Consulting Lugineer for Irrigation Works in Central India a new post created under the general recommendation of the Iringation Com mission in 1903 Upon that report, the Government of India decided to arrange for an examination of the Imgition resources of Central India, accepting the cost as an Imperial charge, and accordingly agreed to provide in experienced lirigation officer to supervise and carry out the investigation for the whole Agency, and to work up urigation

projects in the Nitive States of Central India The work required of the Engineer was to inspect the localities, and to assist advise and supervise the State Engineers in selecting and investigating promising schemes and in preparing estimates. The territories to be dealt with included the Native States comprised in the Central India Agency This appointment was offered to Mr Maish and accepted by him. He has held it since his retirement from the regular service in September 1905 Mr Mush's recreations are sport, shooting, hshing He played in International Footbill (Rugby) for Lingland v Scotland in the match of 1873 He is also a golf, cricket and tennis player

Mr NICHOLAS MAUGHAN AMINSTOI, Deputy Executive Engineer Dramage, Ordinary Branch, of the Bombay Municipal



Mr N MAUGHAN

p lity, was born in London in 1875, and educated at Westminster School and the Crystal Palace School of Engineering On obtaining his certificate of the first class, for Engineering, he was articled in 1895 to Messrs John Taylor, Sons, and Santo Crimp, Civil Engineers, Great George Street, Westminster His articles completed, Mr Maughan was

tical Agent in chaige, Jath State In 1883 he was deputed to the Royal Agricultural College Chencester and after passing through the course obtained the Diploma, and the Diploma of the Royal Agricultural Society of England In November 1887 he was appointed and Assistant Collector and Magis trate at Ahmednagai, and in the sume year officiated as Director of Land Records and Agriculture at Poora In 1889 he was appointed Under Secretary to the Government of India, in the Revenue and Agricultural Department, and up to the year 1892 he tour times offi cated as Secretary to the Govern In the year 1893 he went on special duty to Reunion and Mauri tius in connection with Indian Cooly Immigration and subsequently ie verted to the Bombay establish ment On seturn from leave in 1895 he became Survey Commissioner and Director of Land Records and Agriculture, which position, with short interruptions, he held until 1898, when be became Secretary to Government in the Revenue and Finance Department In August 1899 he was made additional Member of Council of the Governor of Bombay for making Laws and Regu lations He became Chief Secre tary to Government in August 1900 and went on deputation as a Tem porary Member He officiated with the Irrigation Commission in 1901 2 In 1903 he officiated as Member of Council, and in 1904 went to Karachi when be became Commissioner in On the 6th of August, 1905, he was appointed Member of Council of the Governor of Bombay, and on the resignation by Lord Lamington, of the Governorship of the Presi dency in July, 1907, Mr Muir-Mackenze assumed the office of Act ng Governor of Bombay which post he leld pending the arrival of Sir G S Clarke, the newly appointed Governor, in October, 1907

Col RODERICK MACRAE
MB IMS Inspector-General of
Civil Hospitals Bengal is the
second son of the lite John Macrae
of the Macraes of Glenshield and was
born at Lochalsh Rosshire, Scotland
He was educated at the Royal
Veadenty Inverses and the Macrae

Academy, Inverness, and the University of Edinburgh, where he graduated with distinction in 1873

He entered the Indian Medical Service in 1875, and after passing through Netley arrived in India in November of the same year

He was first posted to the Picsidency General Hospital, Calcutta, where he did duty for six months. and in May 1876 was appointed to the medical charge of the 32nd Pioneers at Umballa In November 1876 he was ordered to Meerut to take charge of the 5th Bengal Light Infantiy with which regiment he marched from Mecrut to Bhagalpur He remained at the latter station until the outbreak of the Afghan War in 1878, when he was posted to the Tield Force in the Kurram Valley He ves



Col R MACRAE

present during the operations in the Kurram Valley until April 1879 when he was appointed to the charge of the 2nd P W O Goorkhas then in the Jellalabad Valley where they continued to serve for some months. He returned with the regiment on the conclusion of the first phase of the Afghan War and was with them during the "death march" through the Khyber Pass when some hundreds of deaths occurred from cholera He again accompanied the Regiment to Cabul after the "Cavagnari Massacie" and was present at the affair in the Gugdulluck Pass, and accompanied Sir Charles Gough's column to the relief of

Sherpur in December 1879 While the force remained it Cabul he was present at various operations in the Kohistan, I ogar, and Mardan Valleys. In 1880 he joined the 28th Punjab Native Infantry at Cabul. On the vithdrawal from Cabul, he was imong the officers present in the "historical tent" outside Sherpur, in which the throne of Cabul was made over to the late Abdur Rahman.

On return to India, he was thanked for "excellent services in the field," and was offered the Garrison Surgeoney of Chunar He took over charge at Chunar early in 1881, and took "private affairs leave" in India from 10th July to 31st December 1881 Early in 1882 he elected for civil employ and on the 27th April of that year was appointed Resident Surgeon at the Medical College, Calcutta In December he was appointed Civil Surgeon of Jalpaiguri, and during 1883 and 1884 was successively Civil Surgeon of Jalpaiguri, Rushahi, Shahabad, and Mipore in the 24-Parganas On 23rd November 1884, he went on fur-lough for two years On return from furlough in November 1886 he acted as Civil Surgeon of Saran and Nadiya for short periods and became Civil Surgeon of Shahabad in April 1887 where he remained until February 1891 when he went to Champaran, from which district he again went on furlough for one year and eight months in April 1892 On return from fur lough in December 1893, he first acted as Health Officer, Calcutta then became Civil Surgeon of Gaya on 30th January 1894 During a cholera epidemic in the Gaya Jail, Colonel Macrae gave Mr Haffkine his first opportunity of testing in a scientific manner his system of preventive inoculation for cholera It was during the same epidemic that he proved for the first time the agency of flies in the diffusion of the disease, which had only pre-In May viously been suspected 1896, he went on six months' leave on urgent private affairs, and retuined to India as Civil Surgeon and Superintendent of the Medical School, Dacca, in November 1896 He remained there till June 1901 when he again went on furlough and returned to India in Novem-

Secretary to the Punjab Government In 1884 he joined the Afghan Boundary Commission under Colonel Sir West Ridgeway, with which he remained three years, returning to India in 1887 In the latter year he was invested with the Order of the Star of India with the rank of Commander For the next five vears he held charge of the Peshawar district, during which period he accompanied the Black Wountain Expedition of 1888, for which he received the medal and clasp. In the yen 1892 he was deputed to take ovci the Kurram Valley with an escort of 2,000 troops He remained in Kuriam, settling the country, till 1894 During 1896 and 1897 he acted as Commissioner of Peshawar, and again saw active service in the latter year with the Mohmand Field Force which he accompanied as Chief Political Officer, for which he received medal and clasp He was appointed Chief Secretary to the Punjab Government in 1899 and in the following year was posted to the Derajat as Commissioner In November 1900 he was placed in charge of the Mahsud Blockade This was brought to a successful issue in 1904. For this service he received the clasp. In 1904 he was appointed Commissioner of Multan, and in April of the same year, Chief Commissioner of the Andaman and Nicobai Islands. He reverted to the Punjab in 1906 and now holds the post of Commissioner of the Delhi Division He received the degree of II D from the Aberdeen University in 1900

WALFER HENRY MICHAEL, ICS late Accountant General Lahore, Punjab was born in England in the very 1866. He completed his education in Neuenheim College, Germany where he conceived the idea of entering the Civil Service He spent two and a half years at Wien's and then went to Balliol College Oxford He came to India and joined the Civil Serv co at Madras as Assistant Magistrate in 1887. His services ranged over various districts for the first eight years, and he enjoyed some capital big game shooting in the Vizagapatam District In 1894 he entered the Finance Department, and for about three years he served in the Accountant-General's Office, Madras He was transferred to Calcutta in the capacity of Accountant-General early in 1898, where he remained till 1904 At the end of 1905, on his return from furlough,



Mr W H MICHAEL

he was appointed Accountant General, Punjab, and in 1907 was transferred to Bombay as Accountant General, which position he still holds Besides being an adept in business matters, he is a keen sportsman, has done some racing, and also drives his own motor

MI RAM CHARAN MITRA, MA, BL, Senior Government Pleader. High Court of Bengal eldest son of Bono Wah Mitra, and was born at the village of Goda in the district of Burdwan Bengal, in the year 1847. He received his education at the school which 1- now known as the Hare School, Calcutta, and from this school he passed the Entrance examination of the Calcutta University, being placed second in order of merit. He attended the Pres dency College, and from this institut on he passed the TA examination in the year 1864 being placed high up in the list of successful candidates In the year 1866 he graduated B \ of the Calcutta University, and in 1867 he passed the MAA examination in Mathematics. He then took up the duties of assistant lecturer in Mathematics at the Presi-

dency College, and subsequently attained the post of mathematical lecturer to the FA and BA students in the Sanskrit College He declined an offer of a professorship in the Ajmere College in the verr 1869, and, having passed the B L examination commenced practice as a vakeel of the Calcutta High Court He was appointed Tagore Law Tecturer in the year 1896, choosing as the subject of his course the Law of Joint Property and Partition in British India In the year 1874 he had been appointed Assistant Government Pleader, which post he held till



Mr R C MITRA

the year 1899 when he was appointed to his present position of Senior Government Pleader. He has taken part in local municipal affairs, having been elected a Commissioner of the Calcutta Corporation in 1892.

The Hon'ble Dr ASHUTOSH MOOKERJEE, LLD This distinguished Judge of the High Court of Fort William, and Vice-Chan cellor of the University of Calcutta, is a member of a Brahmin family settled from time immemorial in Bengal The family originally settled in Jeerut Balagar, a village on the Hooghly, whence Dr Ganga Prasad Mookerjee came to Calcutta in the fifties to pursue his studies in medicine. He graduated at the

appointed Resident Engineer, Enfield Water Works, New Pumping Station, in which appointment he served for one year On the expiration of this he tool up the duties of Resident Engineer, Main Drainage of Woking in which connection a paper, written by Mr Maughan has been published by the permission of the Council in the Minutes of the Institution of Civil Engineers His next appointment was that of Resident Engineer Ilford Drainage Works serving there for a short period before joining his present appointment in January 1901 Prior to December 1906 the Drainage Department of the Bombay Municipality was divided into two branches. the Special for constructional work, and the Ordinary for maintenance and house connection work Mr Carkeet James, MICE, Deputy Executive Engineer, Drainage, Special Branch, resigned his appointment in 1906, and the Corporation decided to amalgamate the two branches under one Drainage Engineer To this new post Mr Maughan was appointed in December 1906 with the designation of Deputy Executive Engineer, Drainage, and is now therefore responsible for the construction and maintenance of all drainage works in the city and island of Bombay Mr Maughan is a Member of the Royal Sanitary Institute of London

Mr NORMAN FREDERICK McLEOD Secretary to the Government of the United Provinces in the Public Works Department, Irrigation Branch, was born in 1856 and after completing his training at the Royal Indian Engineering College he joined the Public Works Department of the Indian Government in 1878 and came out to India to join the service in November of the following year His first appointment was as Assistant Engineer on the Ganges Canal, Meerut Division He served through the various grades his service being mostly on the Ganges and Lower Ganges Canals, till as Executive Engineer grade he was transferred to the Eastern Jumna Canal in 1902 thence he was transferred as Superintending Engineer to the 2nd Circle Irrigation Works, in 1903 In 1905 he obtained the grade of Chief Engineer and was appointed Secretary to Government in the Irrigation Branch of the Public Works Department In 1900 he was placed in charge of the Sonc Canals Survey Division in addition to his other duties

Major ARTHUR MEARS, 14, Deputy Superintendent, Survey of India, was born in 1869, at Madras and educated in London He joined the Military College at Sandhurst in the year 1888 and obtained his commission in 1889. He was gazetted to the 1st Battalion Royal Lancaster Regiment, on 30th January, 1889,



Major ARTHUP MEARS

but was subsequently transferred to the 2nd Battalion and proceeded to India. He was appointed to the Staff Corps in 1890 and attached to the 4th Madras Proneers. He was Wing Officer of that Corps in 1892, and in the year 1895 was sent on special duty to Russia to study the Russian language. In 1897 he returned to duty as Wing Officer of the 2nd Madras Infantry, and on 21st November of the same year was appointed Assistant Superintendent, Survey of India. In 1898 Major Mears was attached to the Trigonometrical Branch at Dehra Dun and later in the same year to the Cadastral Survey. Bengal. He remained with the Cadas.

tral Survey till 1902 when he was attached to the Burma Forest Survey, with the rank of Deputy Superintendent in charge of No 20 Party Major Mears commanded a detachment of the 4th Pioneers on Field Service, Chin Hills, in 1891-92, with the Newengai Column, and received the medal and clasp

Mr WILLIAM RUDOLPH HENRY MERK, ICS, CSI, LLD, cldest son of the Revd J N Merk, Cus, was born at Simla in 1852, and was elucated on the Continent of Europe and at King's College University of Aberdeen He passed into the Indian Civil Service, taking third place, and proceeded to India in 1875. His first appointment was as Assistant Commissioner, and he spent three years in the districts of Rawal Pindi, Hazara, and Peshawar In 1879 he was appointed Ass stant Political Officer in the Khyber, and was present at the actions of Dakka and Mazima, and accompanied the Expedition to Beand, for which he was mentioned in the despatches, and received the medal and the thanks of the Government of India In 1880 he was appointed Assistant



Mr W R H MERK

Resident at Kundahar, which post he held till April 1881 He was then placed in charge of the Mardan Sub Division of the Peshawar District, and in 1882 was appointed Under

true to his country and traditions, while standing forth with the leaders of thought either in Europe or Asia He has never travelled in Europe, but is a brilliant exponent of Western knowledge, and at the same time is versed in the ancient Same time is versed in the ancient Hindoo metaphysics and Sanskrit literature are as familiar to him as the latest results of European research Dr Mookerjee has led too busy a life to have published much, but the output of his mind may be looked for in the future, of a certainty Already he has made a commence-Arready ne nas made a commence-ment in a book on that abstruse ment in a book on the 'Law of and difficult subject, the 'Law of and difficult subject, the 'Law of Perpetuities,' and his work on "Conic Sections" is now a text

Mr WILLIAM MOOR, Secretary to the Municipal Board, Cawnpore, pook was born at Mussoorie in the year was porn at Mussoorie in the year 1861, his father being the late Revd Robert Moor, who was connected with the English Church it that station Mr William Moor received the education ports. station wir william moor received in India and his education partly in India and west Indies, at De partly in the west Indies, at De maiaia He entered bus ness in the course the course to do of Court American maiaia in entered on Maries, in the sugar trade of South America,



but left that country in the year 1886, coming to India, where he secured the position of Municipality and the Gorakhpur To the Gorakhpur To the Gorakhpur To the graned two years. In the year remained two years

1888 he was appointed to his present Moor is one of position air atour is one of the Civil Lines Ten position Mr ms Club, the most popular club in nis ciuo, the most popular ciuo in Cawnpore, and acts 18 Secretary of that institution He became a of that institution. He became a Freemason in 1893, lonning Lodge Harmony, E C 438. He has passed through all the Chairs and was, through all the Worshipful Master for 1907, was been very active in the cause of has been very active in the cause of the page account to the company and the cause of the page account to the cause of the page account to the cause of the ca plague prevention in Cawnpore, and his selvices in this connection have pee 1 tecod 1 x q as vei? Aslnaple

Mr CHARLES TURNER STEVENSON MOORE, Stevenson Moore entered the Mı



Indian Civil Service on the 19th Indian Civil Service on the 19th September, 1887, arriving in India on 10th December of the same His first substantive ap pointment was at Midnapore, where he served as Assistant Magistrate ne served as Assistant Magistrate and Collector till June 1889 Ram transferred to Ram pur Hat, and in the following five years selved at Jhen da, Magura, Jessore, Rangan], Budwan, Buxan, Jessore, Nameanly, June Chittagong, Shahabad Patna and Chittagong, 25 Ass stant Magistrate In 1891 he officiated as Magistrate and Col lector, Jessore, and in the year 1894 he was appointed to this same dis trict as Assistant Settlement Officer He attained substantive rank as Settlement Officer of Muzaffarpur, Gya, in 1896, and subsequently be came Settlement Officer of Cham

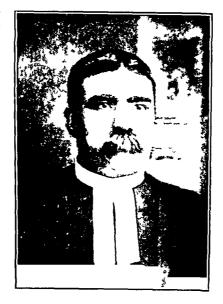
paran, Saran, and Darbhanga, was promoted Joint Magistrate and Colpromoted joint magistrate and cor-lector in the same year, and in 1898 he was appointed Magistrate 1898 he was appointed Magistrate and Collector, 31d grade Mi Ste venson Moore availed himself of fullough in 1899, after completing the settlement operations in Muzaffarpur and Champaran the following year on his return to the following year on his return to the following year, on his return to duty, he was appointed is Junior Secretary to the Board of Revenue, Secretary to the Board of Revenue, and a year later as Magistrate and Collector of the 24 Parganas, and was confirmed in his appoint ment as Magistrate of that district in 1903 In 1902 he acted as Com missioner to the Piesidency Division While at Alipur, Mr Stevenson Moore helped to establish a school for European children, and was Chairman of the Management Com He also introduced in arrangement in Mill Municipalities and which the Mills and Municipal Committees combined in defraying the cost of supplying filtered water within the municipal area He in tiated 1 comprehensive scheme for draining the low lying lands of Diamond Harbour Sub Division

In 1904 he was appointed to his present post as Inspector General present post as inspector General Provinces, and the or rouce, Lower ricymes, and the reforms recom mended by the Police Commission became his special task

Mr NILAMBARA MUKARJI, Vice Chairman of the Corporation of Calcutta is the third son of the late Pundit Debnath Mukarli, a man of high character and considerable liter ary ability He was born at Koolia ary ability rie was bound at Rooma raunghat, District Jessore near Calcutta on 3rd December 1842. He is one of the most distinguished gra duates of the University of Calcutta, taking first class honours at the first examination of the University for the degree of MA in Sanskrit in 1865, and graduating B L in 1866 He was enrolled as a vakeel (pleader) of the Calcutta High Court and shortly the Calcutta riigh Court and shortly afterwards joined the Bar of the Army and Shortly While prace the Punjab Chief Court While prace that Lahore, his talents and learning attracted the notice of History and Maharata of Kashmir Lightless the Ma Highness the Maharaja of Kashmir who appointed him Chief Judge of the State in 1868, Subsequently the State in 1808 Subsequents in the started the silk industry in Kashmir, which rapidly developed and expanded under his direction,

Calcutta Medical College, and thereafter settled down as a medical practitioner in Bhowanipore, a southern suburb of Calcutta Dr Mookeriee was a medical man of distinction in his day His son, Dr Ashutosh Mookerjee was born at Bhowampore in June 1864 At that time Bhowampore was the centre of the law courts which were held in the present Military Hospital buildings, and the young Mookerjee grew up in an atmosphere which may be described as a legal one To his father, young Mookerjee owed the foundation of his great store of learning The undoubted disadvantages of an Indian education, which places too much reliance on mere book learning, were counteracted in Ashutosh Mookerjee's case by the care which his father bestowed on his education in his early years, instilling into him from his own wide experience those principles of independent thought that have made him the original thinker that he is to-day, and has been throughout his life The same care followed Mookerjee all through Mr his student life Even while he was at school, the elder Dr Mookerjee aided his studies with his own ripe wisdom The consequence was that the future High Court Judge acquired knowledge far in advance of that usually imparted at school and college At the age of twenty, Mr Mookerjee attained his degree of Bachelor of Arts, and, continuing his studies in the same earnest spirit in the following year took his Master's degree in Mathematics, and the next year was awarded the Premchand Roychand Scholarship of Rs 8,000 In these years Mr Mookerjee showed a brilliant capacity for the higher mathematics, and with a mind so stored there were many professions open to the young nan. His efforts in these purely His efforts in these purely mental labours were more than local, and before he had attained his majority his work in pure and mixed mathematics had reached the learned societies of Europe His solutions of many abstruse mathematical problems have been incorporated in standard works, to gether with the best work of European scholars But finally the law claimed the young scholar

He joined the City College for the purpose of studying law Though to this subject he brought his usual energy, the result was not at first commensurate with his success in the calmer studies of mathematics He carried off the Tagore Law Gold Medal on three separate occasions, but it must be acknowledged that at first his progress in the law was not as metcoric as his former career had been. He passed the examination of Bacheloi of Law without much distinction, but the preparation of study bore fruit soon after, and his appearance at the Honours Examination of Law five years later, was the occasion of



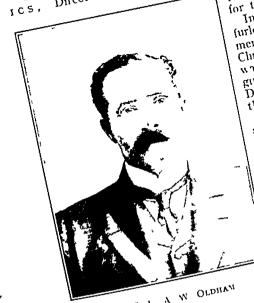
The Hon Dr ASHLTOSH MOOKERJEE

a masterly exhibition of acquirements which secured him the title of Doctor of Law At this period Mr Mookerjee was in his thirtieth year, and the following ten years marked rapid developments in his career He commenced to practise at the Calcutta Bar and as a junior he was soon found to be an invaluable aid to leading Counsel, for the thorough and painstaking habits inculcated in him by his wise father made him the master of every case submitted to him As in course of time he obtained opportunities of exhibiting his powers before the Bench the issue was not long left in doubt, and it was found that he was able to hold his own against

the ablest legal talent of the Calcutta Bar In seven years he attained a leading position Mr Mookerjee gained all the honours open to him as practising counsel, and fifteen years after taking the gown he was appointed a Judge of the High Court which his forensic abilities had so adorned In this short sketch it is not possible to do full justice to the many honours which the Hon'ble Mr Justice Mookerjee has obtained in his not very lengthy life Long years are left in which to add to them, for the learned Judge is still a student He is a Fellow of the Cilcutta University, appointed by Lord Lansdowne in 1889 and as a Member of the Faculty of Arts has been one of its representatives on the Syndicate of the same University for fifteen years. He has been nominated by the University on two occasions as its representative on the Bengal Legislative Council, and a third time by the Calcutta Municipality In 1904, he was elected to the Supreme Council by the non-official Members of the Bengal Legislative Council As a legislator, Dr Mookerjee is not in sympathy with the agitating cliques among his countrymen His work for his country is of a more solid character than the airing of rhetoric, popular among public men of far inferior attainments to his but as a champion of right in legislation, Dr Mookerjee's services have been of a solid order and of infinite value to the material prospects of his country He is a true patriot, working for the advancement of his community under the existing order of Government which he recognizes as the best attainable till the country is really educated enough for a further share of freedom is a profound and honest lawyer, he has placed his knowledge at the service of the public, and the result is shown in many an Act which would have been less perfect but for the keen skill in law and practical knowledge of the country With all which he has exhibited this enlightened and comprehensive grasp of things as they are Dr Mookerjee is a typical Hindoo He is no denationalised mixture of East and West but he has recognized the possibility of being

year 1900, at the request of the Colonial Government and the Royal Asiatic Society of London, he went to Cerlon to report on the preservi tion of the ancient Buddhist monu ments at Anuradhapma and Polu ments a Sum construct India he wie natura On return to mura new referst posted to Jhans, and then to the Benarcs Provincial Division At Benares he (New Yorked in 1904 05) the ancient site of Sainth, the the ancient site of Tuntin, the birthplace of Buddhism where varie ous valuable building and inscriptions were laid bure, in, cluding an Ford column meeting with one of the famous Edicts the terr 1905 he was posted to the Agra Provincial Division where he took part in the restor ition of the Ty and the other ancient Moghul buildings, and helped in the arrangements for the reception of TRH the Prince and Princess of Wales in 1905, and of the Amirof Aghanist in in 1907. In Abril of the latter year house bosted to Luckness to act as Superintending of Civil Engineers and a Member of the Royal Vilatic Society of I ondon OI DH M.

Agriculture VIr C E 1 ર્ભ



Mr C L A W OLDHAM

Bengal, was born in Galway in 1869, and was educated in Galwiy, London, and Balliol College, Ox-

He Joined the service in October 1890 and served as an Vestet int Augustrate and Collector nesist int pregistrate and Conector in teting 15 Virgistrate-Collector in 1892 1804 and 1895, for short periods 1892 1804 and 1895 and riods In 1895 he was appointed Luder-Secretary to Government Under-Secretary to Government officiating is Secretary to Government in the Financial and Municipal ment in the Financial ment in the Fina ment in the change in 1897 ting short terms of special duty.

Mr Oldham next served as a District Officer holding charge of the Gava District for five years and of Monghyr for nearly two years He is blaced on special duty in onnection with the Agricultural Department in September 1905 For his services in connection with bladue in Ciris he wie in tadeq the Knect-1-Hand medil of the first class in 1902 PALMER,

TREDI RICK CE, CIT 11 IN SOC He com menced his engineering enter is in MINSTOT 13 born in 1862 menced as engineering cured is in articled pupil on the Great Western Rilwin South Wiles Division, and With Assistint Engineer on that Ruley for a short time before his Raiman for a short time before many appointment in 1883 to the East appointment in 1883 to the East and Endian Rule is appointment in 1003 to the List Indian Rulwiv ittached to the gineer Office in Calcutta for over Hard Head Office in Calcutta for over five years and was then survey Resident Grand Chord Line for the 100 cars and continuous after nearly the 100 cars.

In 1891, after nearly two verry urlough he was given the appoint furlough he was given the appoint absistant to the ment of Personal Assistant to the ment of reisonal assistant to the Chief Engineer, and cally in 1893 was promoted to be District Engineer to the Augustian Chief Engineer to the Chief Engi gineer in charge of the Allahabad Divis on att uning that rank in less than ten years' service On Junuary 1st 1806, he was

appointed Engineer in Charge of the survey for the Mogul Sern Gryn Extension of the East Indian Rul 117V, and subsequently was given charge of the construction of this The work included the build ing of a hidge over the River Sont, ing or a mage over the thirty between which, with a total length between which, with a total length between abutments of 10,044 lineal feet (nearly two miles), is believed to be the second to see the second to second the second longest river bridge in the world, that over the Tay in Scotland being but a few feet longer The construction of the Sone Bridge was commenced on Tebruary 22nd, 1897, and the official opening later, place exactly three years

Both rebinary 22nd, 1900 the bridge and the railway were completed within the estimated neica within the estimated In 1899, the construction of



Mr. Litbilick Painel

the Barun Daltongani bi inch (80 miles) wis added to in Palmer's already heavy duties

On the completion of the Sone Budge, Mr Palmet was again in England on leave for nearly two years, and while there was offered the appointment of Chief Engineer to the Port of Calcutta In Decembei 1901 he entered upon his new duties and typ dly proceeded with the extension of the recommodation of the Port He has just completed 2 scheme for new docks at Garden Reach, and the extension of other facilities, sufficient for the needs of the family increasing trade of the Port for many years to come

Mr Pilmei was elected an Asso cate Member of the Institute of ciate Member of the institute of Civil Engineers in 1890, and transferred to the class of Member in refred to the class of Member in 1896, in which year he was also elected Member of the American Society of Civil Engineers

W EDWYN HERMANN PAR GITER, Chief Engineer and Secre tary, Irrigation Branch, Punjah, Public Works Department, Lahore, rubic Works Department, Lanore, He was born in Ceylon in 1823 Trunton was educated at the Trunton College School, Somersetshire, Engand he was favoured with the commendatory notices of the Government of India and the Secretary of State, and was rewarded by His Highness the Maharaja with a valu-



Mr. NII AMBARA MUKAPJI

able pan of golden bangles, with an inscription in Persian, and a Sanad, in recognition of his valuable services He was held in high esteem by the Maharaja for his ability, zeal, unimpeachable honesty and single minded devotion to the performance of his onerous duties, and was promoted to the post of Finance Minister As a faithful and trusted councillor he was enabled to intro duce most important and much needed reforms in the administra tion of the State He resigned his service in 1886 In 1896 he was elected Vice-Chairman of the Calcutta Corporation, in which capacity he has gained the approbation of successive Chairmen and the Commissioners, as well as that of the Government, by his integrity and characteristic devotion to duty

Mr ROBERT HENRY NIBLETT, MA, JP, Deputy Collector, 1st grade, and Sub Divisional Magistrate, in charge of the Mussoorie Sub Division of the Dehra Dun District Mr Niblett was born in the year 1859 in India and educated at the Boys' High School and Muir College, Allahabad

He took his degree as Master of Arts at Calcutta University in 1881, and attained Honouis in Physical Science. In the same year he was appointed Head Master of the Boys' High School, Naini Ial. From 1882 to 1884 he served as assistant editor of the North West Provinces Gizetteer, part of which time he was under the Hon'ble Mr (now Sii) J. P. Hewett. In March 1884, he was appointed Honorary. Deputs Collector, Allahabad, and joined the regular service as Deputy Collector,



Mr R H NIBLITT

7th grade, on 13th March 1885 He has served in the different grades of Deputy Collectors till the present time On the 19th October 1904 he was appointed to Mussoorie to the appointment above noted

Mr FREDERICK OSCAR OERTEL, Superintending Engineer, Provincial Works, Lucknow, was born in Hanover on the 9th December 1862 After receiving a general education in Germany hecame to India and joined the Roorkee Engineering College in 1881, where he qualified for Government service He was first posted, in 1883, to the Imperial Circle of Public Works at Simila In 1884 he was transferred to the North West Provinces and was sent to Roorkee, and later to Agra, as an Assistant Engineer From Agra he

was transferred in 1885 to Orai, to construct a portion of the Indian Midland Railway In 1887 he pro cecded to England to give a finish ing touch to his practical knowledge, and for this purpose studied in London and made extended tours in England, France, Germany, and After passing, in 1888, the professional test, he became an Asso crite of the Royal Institute of British Architects On his way to England he was wrecked, on the 17th April 1887, near the coast of Corsical while on board the P and O stermer Tasmania He returned to India at the end of 1889 and was reposted to Agra, where he had to prepare the Japur Kothi for the reception of H R H the Duke of Clarence In 1890 he went to the Sechpore College in Bengal to act as a Professor of Engineer ing In 1891 he was attached to the P W Secretariat in the North West Provinces, where he remained for several years on special duty He was then posted, as District Engineer, to Juni Tal and later, after a short term in the Irrigation Branch, was appointed Executive Engineer of the special Avarpatta



Mr F O OERTEL

Division in Naim Tal He travelled all over India to study oriental architecture, and was deputed to assist in making a survey of the ancient buildings of Burma In the Rodney Phillott, and was born in London in 1860. He was educated at Felsted and joining the Royal Military College, Sandhuist, passed out with Honours. He was gazetted on 14th January, 1880, to the 40th Foot (2nd Someiset L I) then in India. He also served with the 28th Punjab Infantry, and was subsequently appointed to the 3rd Punjab Cavalry, on the 27th Maich, 1887. He saw active service with the Zhob Valley Field. Force in 1890 and again when he was appointed Deputy. Assistant Quartermaster General, Intelligence, Hazara Field Force, 1901, for which he received the medal and clasp. On the North West. Frontier of India he



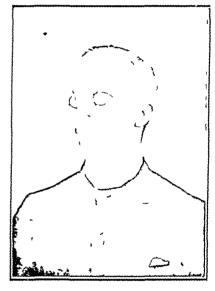
Lt Col D C PHILLOIT

took part in the action of the Ubhlan Pass and operations on the Samana and in the Kurram, 1897, medal and two clasps He twice officiated as Recruiting Staff Officer for Pathans, and was for two years H B M Consul at Kirman and Bundar Abbas, Persia Colonel Phillott has travelled extensively in the East His contributions to literature are translations for the Government of India of several military works nto the Indian vernaculars, he has also edited many Persian texts He is the author of various papers on Philology and Ornithology in the "Journal" and "Memoirs" of the Asiatic Society of Bengal, and translator from the Arabic of the "Nafhat ul Yaman" (in the press), and from the Pers an of B\(\bar{z}\) N\(\bar{a}\)may \(\lambda\)sin' (in the press) Recreations, hawking and travelling Address Indian Museum, Calcutta Clubs Junior Naval and Military, Piccadilly, and United Service, Calcutta

Mr I UDOVIC CHARLES POR-TER, Collector and Chairman of the Meerut Municipality, United Provinces, vas educated at Eton and Trinity College England, and joined the service on 9th October 1889, arriving in India on the 8th January 1800 He was posted to Hardoi as Assistant Commissioner, and after having served as Assistant Magistrate, Collector and Joint Magistrate in various centres, he was appoint d City Magistrate, Lucknow, in 1895. He also held this post in other divisions up to 1898 when he took furlough On his return in 1899 he again served as Joint Magistrate and officiated as Deputy Commissioner at Muttra, Cawnpore and Gonda up to 26th April 1906 when he was appointed Deputy Commissioner Fyzabad, and in February 1907 was posted to Meerut as Collector

Mr WILLIAM RICHARDSON ERETH PURVES, Deputy Collector, Magistrate and Treasury Officer, Nami Tal, is the son of the late William Purves, Government survice He was boin at Agra on the 5th October 1857, and was educated at La Martin eie College, I uck Mr Purves' first employment was as a junior master at Allahabad High School He entered Government service in 1877 after six months of scholastic life. In 1891 he was promoted to a gazetted appointment from Head Clerk, and appointed to officiate as Deputy Collector In 1897 he was made substantive in the appointment of Deputy Collector, in which grade he served at various stations before be ng transferred to his present post at Fatehgarh Mr Purves is the author of a Handbook on Ready Reference to Preparation and Check of Award and Compensa tion for Appropr ation under Act X of 1870 (the Land Acquisition Act), published in 1877

Mr JAMES THOUSON RANKIN, ICS, Secretary to the Board of Revenue, was born in 1871 and educated at Glasgow and Edinburgh He joined the ICS in 1892 and proceeded to India the same year On arrival he was appointed Assistant Magistrate and Collector at Chittagong He served in this grade at Cox's Bazar, Jalpaiguri, Buxar and Sasaram In 1898, he was appointed to act as Magistrate and Collector of Tippera, and in Fcb tuary 1800 he was posted in the same capacity to Dacen, where he 1em1 ned till confirmed in the grade of Magistrate and Collector in 1905, when he was transferred to Cal cutta and appointed Junior Secretary to the Board of Revenue In



Mr J T RANKIN

the same year he was promoted to his present post of Secretary to the Board of Revenue in the new Province of Eastern Bengal and Assam, and stationed at Dacca

Hon Mr Justice ARTHUR HAY STEWART REID, MAN, Bar at Law, Judge of the Chef Court Lahore, Fellow of the Allahabad Unversity and of the Punjab University, was born on the 10th October 1851, and is the second son of the late Henry Stewart Reid, BCS, Member of the Board of Revenue, North West Provinces, 1868 81 He was educated at Harrow (1864 69), and Trinity Hall, Cambridge (1869 72)

land, and at the Royal Indian Engineering College, Cooper's Hill, whence he passed out in 1874, third in order in the final list of that year He was appointed Assistant Engineer, Public Works Department, Punjab, and came to



Mr E H PARGITER

India in the same year. In 1883 he was promoted to Executive Engineer, in 1900 to Superintending Engineer, and in March, 1906, was appointed Chief Engineer and Secretary to Government, Punjab The whole of his service has been to connection with Irrigation Works in the Punjab

WAITER PARRY MINST CE, London (also Member of the Liverpool Engineering Society), Municipal Engineer, Cawnpore, was born and educated at Liver pool, and served his articles with the late Mr Charles H Beloe MINSTEE, Civil Engineer of that city His first appointment was in the Engineering Department of the Birkenhead Muni cipality in which he remained for three years, and afterwards with the Sheffield Corporation In 1885 In 1885 he proceeded to India to take up an appointment with the Corporation of Calcutta in connection with the extension of the water supply After three vears on the complet on of that work, le joined the Allahabad Municipality as Water Works and Municipal Engineer. He remained in this appointment for six years, after which he was appointed by the Government of Bengal to the Howrah Water Works, which appointment he held for two



Mr WALTER PARRY

years and a half On the expiry of this period he was offered and accepted his present position in charge of water works, sewerage, etc, at Cawnpore, where he has charge of all the engineering works and conservancy of that town Mr Parry became a Member of the Institution of Civil Engineers in the year 1895, having previously been an Associate Member

Mr R M PATELL, M 1, LI B, Advocate High Court, Chief Judge of the Presidency Court of Small Causes Bombay was born in Bombay on 27th August 1846 He was educated at the Elphinstone College, Bombay, and practised as a Pleader in Bombay from the year 1874 In January 1894, he was appointed 2nd Judge of the Court of Small Causes, and in 1897 8 acted as Assistant to the Legal Remem brancer He officiated as an Acting Chief Judge on four occasions, up to the year 1905, and in the year 1906 was appointed Chief Judge, which post he still

holds For nearly 30 years he was Honorary Secretary to the J N Petit Institute, of which he is now Honorary Life Member and Vice President He is a Fellow of the Bombay University and was elected a Syndic in Arts for three years

Mr CHARLES FREDERICK PAYNE, 1 c s, Deputy Chairman of the Corporation of Calcutta, was born in 1875 at Bromley, Kent (England), and is the son of Mr Frederick Payne of that place He received his education at St John's School, Leatherhead, and Brazenose College (Ovon), where he took his BA degree He joined the Indian Civil Service



Mr C F PANE

on the 25th October 1898, and arrived in Calcutta on the 6th December of the same year. Since that time he has been posted to the Nadia, Patna and 24 Parganas districts. He has held his present appointment since October 1904.

Lieut Colonel D O U G L A S CRAVEN PHILLOTT, Secretary, Board of Examiners in Oriental Languages, Calcutta, Honorary Secretary, Asiatic Society of Bengal, Vice-President, Esperanto Society, Calcutta, Vice President, Hindi "Ek Lipi" Society, Honorary Adviser, Buddhist Shrine Restoration Society, Gold Medallist in Persian Colonel D C Phillott is the fourth son of the late Lieut Colonel Henry

Judge, Chief Court, and was appointed as permanent Judge, Chief Court, in 1904. His literary works are Cistomary Law of Rawalpinda District, Tinal Reports of Revised Settlement, and Report on the Forcel Settlement of the Rawalpinda District. He has been a keen supporter of cricket, acted as Honorary Secretary to the Punjab Cricket Clubfor some years, and is a member of the M. C. C. and other cricket clubs, and of the Royal and Ancient Golf Club, St. Andrews. He is also interested in philanthropic work, and is President of the Y. M. C. A. Lahore

Mr SYDNEY MADDOCK ROBINSON, But at Law, Legal Remembrances to Government, Punjab, I ahose was bosn in the vest 1865, at Karachi, India and educated at the Cathedial School, Here ford, and Brasenose College, Oxford where he took his BA degree in January 1888. He was called to the Bir, Middle Temple, on 26th January 1888 and came to Lahose, Punjab, India, in the same vert In 1889, he officiated for the Junior Government Advocate and was appointed Public Prosecutor, Lahore



Mr S M Robinson

and Terozepore Division, in 1891. He officiated as Junior Government Advocate annually until 1800 when he was appointed Government Advocate. He is sub-pro-t-m. Legal

Remembrancer to the Punjab Government and Secretary to the Legislative Council of the Punjab

Mr Al FRED EDW ARD RAVES BA, Government Advocate High Court, Allahabid son of Mijor T. J. Raves, late Deputs Inspector-General of Police, United Provinces, was born at Allahabid in the verified Mr. Raves received his education in England, at Clitton College and Trinity College, Oxford He was called at the Middle Temple in November 1888. He came to India and was enrolled an Advocate of the Allahabid High Court in January 1889. In 1891 he proceeded to Dehra Dun, and subsequently



Mr A E Ryvrs

practised at Saharanpur but re turned to Allahabad in 1894 1898 he was appointed Offic iting Government Advocate for a year After two short officiating terms he was appointed Government Advocate, sub pro t m in 1901 and finally confirmed. He official ted as First Additional Judicial Commissioner, Lucknow period of seven months in 1005 Mr Rives has been as-occated with Freemasonry since the verr 1001, and has passed the Chair in the 18th degree. He is at present Worshipful Master of Lodge Independence with Philanthropy, 10 391, E C

Mr HENRY SAVAGE, CSI, ICS, Wis born in 1854 at Bolton in Westmoreland and educated at the Liverpool Institute He passed the Indian Civil Service Examina-



Mr H SAVAGE

tion direct from school in 1872 and arrived in India in October 1874 He served as Assistant Magistrate Joint Magistrate or Collector in many of the districts of the Province of Bengal, and in 1896 became Commissioner of the Dacca Division In 1904 he was on special duty ir connection with the improvement of village is a pistintoo and village police, and in the same year was appointed a Compamonof the Order of the Star of India On the formation of the nev I rovince of Eastern Bengal and Assam he was appointed Sin i Member of the Board of Revenue in that Province, a post v hich he still holds

The late Ru Bahadur RAM SAN-KAR SEN Deputy Mag strate and Deputy Collector of the first gr. I and Member Bengal Legislat Council, was born on the 10th Itl 1820 at Poor to Mittain in Die in East Bangal He ein trou a distanguished Vida i funky (Michardraste) and was aften in discrete from Ranhu Ran Sa, Masser to the Malome Ion Governor of Direct He was educated as Confliction and as Diera Collection of the Carried of the end of the file of the carried of the end of the file of the carried of the end of the file of the carried of the end of the file of the carried of the end of the file of the carried of the end of the file o

BA, 1872, MA, 1885 Called to the Bar, January 1874, Inner Icm ple Practised in India from 1875 Professor of Liw, Muir Central College, Allahabad, from January 1883, and Officiating Public Prosecutor and Standing Counsel (Government Advocate), North West Provinces, 1895 Officiated is Judge, Punjab Chef Court, from April to September 1896, and was confirmed as Judge of that Court in September 1896 Officiated is Chef Judge in



Hon Mr Justice A H STEWART RLID

1899, 1902 and 1906 Married, 1897, Imogen, daughter of the late Sii Cecil Beadon, KCSI, Lieute nant Governor of Bengal

Mr CHARLES SKRYMSHER RENNICK, who was born in London in 1858, received his education it University College School (London) and the Royal Indian Engineering College, Cooper's Hill He came out to India in November 1881 and was posted to Rajputana as an Assistant Engineer under the Local Adminis tration Early in 1884 he was transferred to the Railway branch and served up to 1901 as an Assistant Engineer and Executive Engineer on various divisions of the North Western Railway From 1902 to 1906 he was employed on the survey and construction of the Allahabad Fyzabad and Allahabad Jaunpore Railways In October

1906 he was appointed Deputy Consulting Engineer, Lucknow Circle



Mr C S Ri Nici

Hon'ble Mr Justice H G RICHARDS, & C, MA, Limita College, Duthi, Judge G the High



Hon ble Mr Justice RICHARDS

Court, Allahabad, son of the late John Henry Richards, Chairman of Quarter Sessions, County Mayo, and grandson of the Right Hon'ble John Richards, Attorney General of Ireland, Baron of the Court of Exchequer in Ireland, and First Commissioner of the Encumbered Let ites Court. Mr. Justice Richards is a Member of the Irish Bar, which he joined in 1883. In 1904 he was appointed one of His Majesty's Counsela Tielaid, and in 1905 was made a Puisne Judge of the Migh Court of Judicature of the North West Provinces. He is a Fellow of the Allahabal University. Since his arrived in India he has identified himself with the Volunteer movement, and is Commission of the Allahabal Volunteer. Rife Corps.

The Hon'ble Mr Justice IRIDIRICK MEXADLR ROBERTSON By at Liv, Judge,



Hon Mr Justice Robertson

Chief Court, Punjab Lahore, was born in the veir 1854 and educated privately and at King's College He came to India in 1876 and was appointed Assistant Comm ss oner, Lahore In 1882 he was deputed to Rawalpindi as Forest Settlement Officer and became Settlement Collector in 1885 Or return from furlough in 1888 he was employed on special duty on the Maler Koth In the Settlement operations following year he officiated as Direc tor of Land Records and Agricul ture, in which appointment he was subsequently confirmed In 1896 he was appointed Divisional Judge, in December 1898 he became Additional

triculated, and subsequently it the Lahore Government College where he graduated in the Faculty of Arts in 1887, in which year he left for England to study for the Bur, and joined the Middle Temple. After going through the usual course of legal instruction, he was called to the Bar in June 1890 As a law student he distinguished himself in Figland by obtaining, after severe competitive tests a scholarship at his own Inn, and several prizes offered by he Council of legal Education Returning to Lahore he was enrolled as an Advocate of the Chief Court, Pumpib in 1801 and is such enjoyed Therative practice for sixteen veirs being appointed a temporary addi-



Hon Mr Justice M SHAH DIN

tional Judge of the Chief Court in December 1906. Endowed is he is, with great natural gifts and a marked intellectual activity the engrossing pur uits of the legal profession did not ab orball his energies, and before his appointment to the Chief Court he stood out in public life as the most prominent Mahomedan in the Punjah, and, as such, impressed his personality upon numerous educational, social, and political movements.

He was appointed a Fellow of the Punjab University in 1893 and has been a Syndic for the last ten years. He was elected President of the minth Session of the Mahomedan Educational Conference held at

Aligarh in 1894 and was appointed i Irustice of the M A O Codlege, Alignih in 1896 He is the Presi dent of the Young Men's Muho med in A sociation, Lahore, a member of the Committee of the Punish Public Library a member of the Committee of Management of the Victoria Jubilee In titute (Punjab), and a Fellow of the Punjab Associa tion of which her allo in Honorary Seretary in conjunction with Sir Div d Mi son and Mr Justice Chat terjee. He represents the Maho med in community on the Committee of Management of St. John's Ambu line Association (Indian Brinch) He was appointed a member of the Purpib Legi Int ve Council in 1903, for a term of two year and was renominated in 195, but had to reign his seit in 1906 owing to his appointment is a Judge of the Chief Court While in Eigland he had the honour of a presentation it Her life Mije tys Leve in 1889 He dom the sime year in collibornton with a few oth r Irdian Mahomeda's founded the Anjuman i-I limit, I onden In recogni tion of his manifold public services Covernment conferred on him the title of Klan Burnaus in 1986.

The Hon'ble Mt Justice SYFD SHARFUDDIN Among the Fol lowers of the Prophet who have had the distinction of burn rised to a High Court bench not the least temukable is the Honble Mi Sved Sharfuddin Barrister it Law Though for many yours he has been the leider of the Behn Bu he his not allowed the whole of his energies to be absorbed by professional duties, and has always found time to take in intelligent part in public iffine He i i cheery, simple, unaffected general man, who has a way with him of distrining hostility and of winning the regard of those who come in contact with him He is an effective speaker and a man of a pre emmently cool judg

He belongs to an incient Syed family. The head of the family, Syed Hussam Khing Siwar, came to India, in 1174 and two years before the invision of Shahabuddin Ghori. He commanded an important section of Shahabuddin's forces against Prithyi Raja in the battle of Thorewar, where the Hin

du power fell in India As a reward for his services, he was made Commander of the Taragarh hill fort in Rijputana where he died fighting in 1210 and, in repelling a night attack of the combined bands of the Rithors and Chiuhans Sir W W Hunter his noticed the incident in the list volume of the Imperial Gardier

Mr Sharfuddin was born at Neora, on the roth September 1856, and is the voungest son of Sied Farzand Mr, Pleider of Chipri. He was educated at the Patna Collegiate School. As his elder brother, Sied Nasaruddin. had already joined the executive branch of the Provincial Civil Service as a Deputy

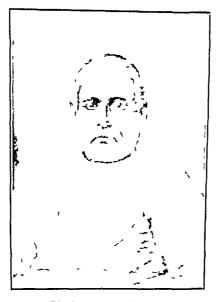


The Hon'ble Mr. Justice S. Shape Codis

Collector, he was sent to England to qualify for the Bar. It is to be remembered that the late Sir Syed Ahmed's visit to England in 1869 70 had greatly removed the prejudices of Mahomedans against sending their sons to that country for education. Mr. Sharfuddin joined the Middle Temple, and was called to the Bar in 1880. He belonged to a happy band of young. Behari Mahomedans, the other members of which were Mr. Nurul Huda, District and Sessions Judge, Pubna, and Mr. Abul Hasan Khan, Small Cause Court. Judge, Calcutta, both of whom were called to the Bar in the same year as Mr. Sharfuddin. On his return to India.

and puzes, as well is gold meduls for literature Hc pissed both the Junior and Senior Scholarship Examinations of the pie University days with the highest credit, and received the gold medal for library reading, which is equivalent to the present day Premchand Roychand Scholarship In after-years h s col lege record was publicly alluded to by Dr Mourt, the Secretary to the Council of Education, on the occis on of a prize distribution.
He commenced his career is a lecturer at the Dacca College and from here he went as Head Master to the Chattagong School In 1858 he was appointed Deputy Mag's tinte and Collector and was employed in the districts of Chittingong and Norkhali, where he did good serv ce in carrying out the reforms intio duced under Act X of 1859. His work in this connection attracted the attention of the Board of Revenue, and received an acknowledgment from His Honour the Leutenant Governor of Bengal He was then placed in charge of Kishor ganj and Ranaghat, both very ds turbed sub divisions in those days and his method of dealing with organised crime in these districts again attracted the notice of his superiors Mr C T Buckland, I c s, placed it on record that Ram Sankar Sen was "the best Indian Deputy Mag strate in Bengal" In 1869, he was offered the Devansh p of the Cooch Behn State by Si Ashley Eden, but icfused for domes tic reasons In December, 1871, the Viceroy, Lord Mayo, visited Rana ghat on his way to a shoot, and Mr Sen received His Excellency with proper state, for which he received thanks, by command, from Major General Sr Owen Tudor Burne, the Military Secretary In 1872, he was deputed to Jessore on special duty, to collect agricultural stat stics For this service he received special notice in the annual report of Government His report was pronounced to be very valuable and interesting by Sr George Campbell, the then Lieute nant Governor of Bengal, and was circulated as a Government paper The report was noticed in very favourable terms by the press In 1874, he was appointed a rel ef officer in connection with the Behar Famire, and received spec al mention for his work from Sir Richard Temple

In the same year he was again placed on special duty in connec tion with the registration of hold ings in the Government Estate of Panch mn igram in the Suburbs of Cilcutta In 1876, Mr Sen was appointed a Member of the Bengal Legislative Council, which office he held for two years, assisting in the enactment of several important laws iffecting the Municipal and Revenuc administration of the country He was invested with the title of "Ra Bahadur" on the occasion of the assumption of the Impered title by the late Quee -Limpress Victoria, in recognition of this loyal conduct and services ' In 1877 he was winded the Delhi



The late Ray Bahadur Ray Sankar Sev

Imperial Assemblage medal by the Leutenant Governor of Bengal In 1878, he became a member of the Central Examination Committee and Vice Charman of the District Road Cess Fund of the 24 Perganas In 1883, he was deputed to enquire into the abuses prevailing on the Calcutta and Eastern Canals As a result of these enquiries a committee was appointed, consisting of Mi A W Paul, ics, Mr D B Hoin, Executive Engineer, and Mr Sen, to frame a scheme for the beter management of the canals His last appointment under Govern ment was that of Magistrate of the Sealdah Police Court, Calcutta

He retired on the 16th July, 1886, with an honourable record of service listing over 35 years. He declared the offer of the effice of Prime Minister to the Blana State shortly before his retrement. In 1887 the Ru Bahadur was granted a special pens on by the Secretary of State in consideration of his "long distinguished and unusually merito rious service. He was appoint ed a Presidency Magistrate in 1800 In pravite life he was very popular with all clisses and was a distri guished leader of Indian socity He died on the 26th Linuary 1808, and a public meeting with the object of talling steps to perpetuate his memory was held at the Calcutta University Institution, presided over by Sa Cecil Stevens Kesi, Officiating I cuterant Governor of Bengul, who among other thing-, said that had Mr Sen laced a few years later, he would certainly have

found a place in the rapks of District Mag strates. The late Mr. Sen had three sons —(1) Mr. G. Sen of the Inner Lemph. But at Law, Advocate of the Calcutta. High Court, who pie deceased his father in 1890. Issue, three oas, of whom the eldest, Mr. Prafulla Sankar Sen at 1, Separate Collector and Sub-Divisional Magistrate of Ga banda in Eastern Bengal and Assum Another one Nilhil s in England studying for the Bar, while the second son Amudya is studying in India.

(2) Mr Juan Sankar Sen PCs, Eastern Bengal and Assam is the chief Manager of the Bhowal Rajin Dacca. His eldest son, Mr S n M v, is n the Provincial Cvil Service of Bengal

(3) Mr Hem Sankar Sen, an Assistant in the Political Department of the Bengal Secretariat

Res dences — Bewthn in Manik gang Sub Division, Dacca, and 63, Upper Circular Road, Calcutta

The Hon'ble Mr Jastice MOHAMED SHAH DIN, BA, KB, Bu at Law, Judge, Chief Court, Punjab, Lahore, was born at the year 1868 He comes of a distinguished and ancient family, known as the Mian family of Bagh banpura in the District of Lahore He was educated at the Mission High School, Lahore, where he ma

on a year's furlough in 1900, but was recalled before his leave expired, to act for Mr Harvey, as previously stated, in the Bombay Municipal Commissionership in May 1901

In August 1902, on the leturn of Mi Harvey, Mr Sheppaid went on



Mr W D SHEPPARD

furlough, returning to India is March 1904, when he was once more appointed Collector of Poona This post he has resigned in order to resume the duties of Municipal Commissioner of Bombay, a task for which Government, in view of his past services, consider him especially fitted

Ray Rayan RAM ANUGRAH NARAYAN SINGH, Presidency Magistrate, Calcutta, is descended from the ancient Ray Rayan zemindar family of Badalpura in the District of Patra. This family came originally from Upper India They have been landholders for two centuries past. The loval services of Mi R A N Singh's great grandfather, Ray Sita Ram Singh, during the Indian Mutiny of 1857 are well known and were fully recognized by the Government at the time. He was selected for the Native Civil Service by Sir George Campbell, Lieutenant Governor of Bengal, and successfully passed the N C S examination in the higher grade. Upon passing his examination Mr R A N Singh was

appointed Manager of the Court of Wards and Deputy Collector in the District of Saran In 1880 he re verted to his appointment of Deputy Magistrate, which he owed to Sii Ashley Eden He served the Govern ment with zeal and ability for many years in the districts of the Patna Division, and his services were on several occasions specially recognized by the authorities. He was men tioned in the printed Resolution on the General Administration Report of the Patna Division for 1891 92, also in the Revenue Board's printed Report on Land Revenue Administration for 1902 03 in the printed Census Report of the Patna Divis on for 1891, and in the printed Report on the Indian Famine Relief Fund in Bengal, 1897 98 In the years 1877 and 1903 he obtained i Certificate of Honour from Government for his loyalty and public spirit, and in 1887 he received the Jubilee Medal. In 1904, Sir Andrew Fraser, Lieutenant Governor of Bengal, brought him down to Calcutta and placed him in charge as Magistrate of the Sealdah Police Court, and in the following



M1 R A N SINGH

year appointed him Third Pies dency Magistrate for the town of Calcutta Mi R A N Singh, as the representative of his family, is a landed proprietor of independent means and administers a very solvent property His services as a zemindar were publicly recognized by the Government of Bengal in the Resolution on the Annual Administration Report of the Patna Division for 1875 76 He is one of the best class of officials, and has earned the reputation of a just and able magistrate while on the Calcutta Stipendiary Bench There is a brief sketch of his family history in the second volume of Ghose's "History of Raiahs and Zemindars"

Lieut-Colonel JULIAN C SMITH MB, CM (Edin) IMS, Civil Surgeon, Meerut, United Provinces, was born in India on 7th August 1854, and educated at the Aberdeen and Edinburgh Universities He took his degrees in 1877, entered the service on the 31st March 1879 and came to India the same year He was on active service for eleven years and won a medal and two clasps in the Second Afghan War 1879-80, and the Burma Wai, 1886-87, respectively He joined civil employ in 1884 and has remained in the Provinces United serving various districts as Civil Surgeon He was appointed to Meerut District in 1902 and is Health Officer a Police Officer as well as Superintendent of the District Jail He is a member of the British Medical Association

Mr EDMUND DUCANE SMITHE was born in 1853 and educated at Shrewsbury School (1864-1868) He served his engineering apprenticeship in Norway and completed his training at the Royal Indian Engineering College Cooper's Hill In October 1875, he was appointed to the Public Works Department and after his arrival in India he served in various capacities in the Punjab Irrigation Branch He was promoted to the post of Executive Engineer in December 1883 In 1895 he was transferred to the Buildings and Roads Branch Punjab, and appointed Under-Secretary, P W D He became Sanitary Engineer to the Punjab Government in 1900 and was appointed Chief Engineer and Secretary, P W D, in October 1903 Mr Smithe has passed the Higher Standard in Punjabi and Pushtu, and is a Member of 'the Institute of Civil Engineers

he began to practise in the Calcutta High Court, but as private affairs demanded his continuous presence nearer home, he left Calcutta and finally set up his practice at Banki pore Soon he established a name for himself in Behar In criminal cases of any importance he was almost invariably retained for one of the parties His cross examina tion was a terror to the tutored witness His painstaking habits, combined with his forensic abilities, made him an almost ideal counsel By the time the late Sir John Woodburn came to rule at Belvedere, Mr Sharfuddin was looked upon as leader of the Behar Bar, and as a most likely candidate to fill a vacancy on the High Court bench But chances came and he was passed over His claims, however, had already been brought to the notice of Government by Mr Halliday and Sir James Bourdillon But it was not till Mr Ameer Ali's successor had been chosen that it became apparent that a prejudice existed against Mi Sharluddin on account of his being a member of the "Mofussil Bar"

Mi Sharfuddin is a man of many sided activities and has been ever ready to help a primâ facie good cause He has been an ardent admirer of the Indian National Congress, a strong advocate of the Nadwat ul Ulama and a staunch supporter of the Aligarh College Mr Hamid Alı Khan of the Lucknow Bar and Mr Sharfuddin of Behar were the only two men of position among the Mahomedans of Northern India who differed from their coreligionists in politics and warmly espoused the Congress cause He was a prominent member of the Mahomedan Deputation which wait ed on the Viceroy in 1906, and took an active part in the preparation of the address presented by that body to His Excellency

Mi Sharfuddin has always taken a warm interest in the education of his community. In his view no education is complete which ignores religion. Holding these opinions it is not surprising that he should have found it possible to promote the interests of the Nadwah at the same time that he has identified himself with the cause of the Aligarh College. The local Islamia School at Patna is

not a little indebted to his energy and purse. It was mainly through his exertions that the annual meeting of the Nadwah was held in 1900 at Patna. His coleligionists did him the honour of electing him President of the All India Mahomedan Educational Conference, which met at Dacca in December 1906.

Nor has he confined h mself to advancing the cause of his own community As Vice Chairman of the Patna District Board, he held office for three successive terms for a total period of nine years. In many an annual report have the Local Government expressed their apprecia tion of the work which Mr Sharfuddin did in that capacity As Municipal Commissioner, his work was second to none On the Universi ties Act of 1904 coming into force, he was nominated a Fellow of the Sen ate of the Calcutta University He was the Honorary Secretary of the Behar Landholders' Association, the members of which are mostly Hindus, and was unanimously elected in 1905 to represent that body on the Bengal Legislative Council

Khan Saheb SORABJI SHAVAKSHA, BE (Bachelor of Fngineering), Engineer, Executive



Khan Saheb Sorabji Shavaksha

Irrigation Branch, Public Works Department, was educated at Seeb pur College, Calcutta, where he

passed his examination in the year 1886, grining the gold medal in Mathematics He was the first Parsee gentleman to pass out from that college He joined Government service in 1887, and was appointed Assistant Engineer and posted to the Calcutta Division In 1892 he was transferred perma nently to the North-West Provinces and Oudh, now the United Provinces, and in the same year he joined the Irrigation Branch and was posted to the Lower Ganges Canal He served as Assistant Engineer in various stations till 1898, when he was appointed Executive Engineer, 3rJ grade, attaining the 1st grade in the year 1905. He is now in charge of the Campore Division of the Lower Ganges Canal

M₁ W D SHEPPARD, who succeeded Mr W L Harvey as Municipal Commissioner of Bom bay in March 1905 was appointed in May 1901 to act in the same ca pacity when Mr Harvey went on leave Mi Sheppard joined the Indian Civil Service in October 1886, airiving in Bombay in December of the same year after completing his education at New College, Ox His first experiences in ford Indian administration were as As sistant Collector and Magistrate in Belgaum and Kanara, in which latter district he was, in January 1892, appointed Forest Settlement Officer We next find Mr Shep pard officiating on frequent occa sions as Collector and Magistrate and District Registrat, Kanara, until July 1894, when, in addition to his other duties, he was appointed to act as Assistant Political Agent in the Southern Maratha Country Early in 1896, Mr Sheppard was transferred to Dharwar as Collector, and subsequently to Bijapur, as Personal Assistant to the Collector, where, as colleague to Sırdar G D Pase, he successfully dealt with a famine of intense severity From January 1898, he was again in Kanara, acting as Collector and Magistrate and District Registrar On his return from short leave in September 1898, he was transferred to Poona, at which place he offi-ciated as Collector and Magistrate and District Registrar, and in addi tion was Political Agent for the Bhor State He went to Europe

1885 he was deputed to the Rulway Service and Joined the Kalka-Simla Railway Survey Divis on in which he rema ned for two years He was next employed on the survey and



Mr. J. Wickii Intol

construction of the Patrala-Bhat n da Radway unt I the complet on of the line in the veir 1860 when he returned to the Punj ib Roads and Buildings Department of the PWD Micr a spell of furlough Mr. Livlor exchanged to the United Provinces in 1892 and Jo ned the Iright on Branch He was posted at the time to the Anupshahi Dia son of the Ganges Canal, and an the following year was transferred to Algrih In the very 1895 he was bretted as Executive Engineer and posted to the charge of the Varona Discount the Lower Games Canal He served here till 1898 when he ig in took furlough In the fellow ng year he has bliced a chare of the Cana porc D vis on of the Ginges Cinal and here he rem in ed for two years, when he ignin went on leave on private affurs for six months On his return to duty he was given charge of the Upper D vis on of the Erstern Jumna Canal, Saharanpur, where he remained till 1902, when he again went on furlough On his return in 1903, he was transferred to the Agra Canals, and later on, in the same year, he was placed in charge of the Meerut Division, Ganges Canal, which post he has held ever since Mi Mackay

THE CYCLOPEDIA OF INDIA

Tivlor receved the thanks of Govern Thent for special services in connec t on with the widening of the Ciwn pore bi meh of the Garges Canal, and igan for he services in the Rupui escape of the Pastern Jump Capa He was specially commended for ha Rulway Mi Mack is I whor has Pit ili Bhit pda qualified in the Higher Stindard n Urdu, in Cinal law, and in the Lower Standard in Pushin

Wr WILLIAM TUDBALL Ics Sess ons Judge, Caumpore, wes born if Kill in Bombay, in the vent 1866 He is the son of the late Charles Tudball, D. T. S. on the Bombas, Baroda and Central In ha Rulway He was educated Modern School and Chi st Church, Oxford He Joined the Indian (1) Service, pressing second in the second i the epen competition in 1885 He arr ved in Ird i in 1857, and was first posted to Buelly as Assistant Wig strate worked through the various grades



wards Deputy Commissioner

sime capacity, to Campone

and in 1906 was transferred in the

Capt 1 1 WALTER

educated it Plymouth College and Middlesey Hospital He took his digrees of MR (5 and LRCP in 1896 He was senior Demon Strator of Physiology and Biology at Juddlesex and subsequently prictised privately for two years in putnership with Di B 7 Towne, I h C S at Clookham Hamp shine In 1899 Ciptum Wilter Joined the Inlian Wedical Service, and in the same very pro cceded to India In the course of his service he was with vinous regiments until the Bover disting bance in China He went with the Expeditionary Force and took out with him in X Ray apparitus He tempined in Ching for two years and at the expiry of that period returned to India On his return he was put on special duty in con nection with \ Ray work until the formation of the X Ray Institute, which took place in 1906 About three years ago Captain Walter was sent to Europe on six months'



 $Mr W \Gamma_{UDB MLI}$

being in turn posted to Thansi Bud inn, Shahjah inpin, Bu i Binki, Pal bhit Al guh and Meetut, officiat ng is Judge and ilso as District Magistrate, till appointed Assistant Comm sc onci, 1st gride, when he took futlough out of India On rcturn he w isperm mently appointed Joint Magistrate and shortly after

on famine duty, serving successively in the Darbhanga and Lastern Sone Divisions He was transferred to Brahming-By turny Division in the following year and obtained his

officiating appointment as Executive Engineer when he was appointed to Aquapada-Jajpur Division His next charge was Balasore and in 1904 he was placed in charge of

Mozufferpore, whence, in August 1905, he was transferred to his present appointment and took charge of the First Calcutta

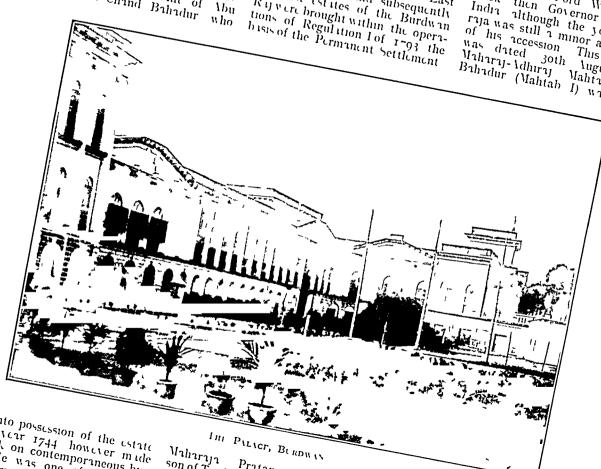




who came from the Punjah at about that period to settle at Burd wan The family did not spring into importance all it once. The six descendants and successors of Abu Rai 117 Babu Rai Ghana sham Rai, Krishna Ram Ra, Jagat Ram Rai Kirti Chander Rai and Chitra Sen Ra, nursed and and Chitra Sen Iva, nursed and developed the estate left by him and added largely to its acquiring further lands in the ne ghbouring districts
The seventh descendant of Abu Rai Tilak Chand Bahadur who

and 3000 Cavalry, to which was added authority to keep guns and music Waharaj Tilak Chand Bahadur's distinguished career lasted 27 years He died in the verr 1771 and was succeeded by his son Tej Chand Bahadur In the meanwhile the whole of Bengal had Passed under British tule under the Honourable East Ind a Company and subsequently the vast estates of the Burdwan Ry were brought within the opera-

tion, and was succeeded on the "Gadi" of Burdwan by his adopted son, Mahtab Chand, who became one of the most noted of the Waha rajas of Burdwan On his succes sion he was immediately recognised as Maharaj-Adhiraj Bahadur of Burdwan by Lord William Ben tinck then Governor General of India although the young Maha rija was still i minor at the time of his accession. This firman? was dited 30th August 1832 Was dated 30th lugust 1832 Maharaj-Adhiraj Mahtab Chand Bahadur (Mahtab I) was for 47



came into possession of the estate in the year 1744 however mide his mark on contemporaneous history He was one of the most famous members that the House has produced and attained to high favour with the Imperor of Delhi By this monarch Tilak Chand was created "Raja Bahadur" and 2,000 Cavalry," and this honour was finally increased by the Fmwas finally increased by the Emperor to that of "Maharaj-Adhiraj Bahadur" and "Panch Hazari" or Commander of 5,000 Infantry

son of Tej Chand Bahadui who died during the lifetime of his father acted as Regent for some time He was the inventor of the Patni, tenuie, from which the great Patm" law took its rise (Regulation VII of 1819) Waharaja Fej Chand Career, occupying the "Gadi" for 60 years He died in 1831 His legitimate son, Mahataja Pratap Chand, having died during his lifetime, Maharaja Tej Chand had recourse to the Hindu Law of Adop

years one of the most prominent thehgures in Bengal He was the first nobleman in Bengal to be honour ed with a seat in the Viceregal of which he was appointed Additional Member in the year 1864 The Maharaja Mithab Chand increased the dig obtained for himself and his des condants. Royal Licenses to bear cendents Royal License to bear "Arms and Supporters". On the occasion of the proclamation of Her late Majesty Queen Victoria as Em press of India at the Imperial



Mr K BADERUDDIN AHMAD, Dacca, was born in 1876, and is descended from a line of ancestors who originally came from Cashmere He received a home education in Arabic, Persian, Urdu and English In 1905 he was appointed a member of the Dacca District Board and in the same year he received his appointment as Honorary Magistrate of the

Mr K BADLPI DDIN AHMAD

Sadai Independent Bench of Dacca and was nominated a Commissioner of the Dacca Municipality in 1906. He was mairied at the age of 26 to the eldest daughter of the third wife of the late Nawab Sii Ahsanulla, kcie, of Dacca Mr. Baderuddin Ahmad is devoted to sport of all kinds he is a keen polo and hockey player and keeps

a good stud of hoises for his recreations. Shooting is another of his relaxations and he has a reputation at billiards. He is a member of the Dacca Amusement Club. He is well known locally as a good sportsman and gentleman, and exerts considerable influence in the town of Dacca.

Mr GOKUL CHAND BURAL, Zemindai, Calcutta, is the youngest son of the late Rai Piem Chand Bural, Buhadur He received his education at the Hindu School. Calcutta He is distinguished for his philanthropy and devotes his life to charities of many descriptions Among many important benefactions with which his name is associated may be mentioned the founding of the Dwarekasram at Khurda near Barrackpoie, where free food is daily distributed among the poor and pilgims. He has also taken naturally to medical science and is a giert pation of the Suksmr Ayurvedic System of Medicine, founded by Mr B B Batabyal of Calcutta He distributes medicines free every day to poor patients He is a great upholder of practical training of all kinds, and never fails to give his aid to any practical scheme of this description At his residence, No 8, Hidaram Baneijee's Lane, Calcutta, he dis penses princely hospitality, and his keen appreciation of sterling qualities has made his place a rendez vous for literate men in Bengal He is also a Freemason Babu Gokul Chand is happily married to the only daughter of the late Dwarka Nath Law, the proprietor of Messrs Bisso Nath Law & Co, of Calcutta, and has assue, three sons, Bolie

Chand, Doonin Chand and Nirmal Chand, and three daughters, Provabati, Bhagabati and Padmabati. He has made the phiase "Live for others" the motto of his family. He is the Honorary Secretary to the Bow Bazaar Government Aided Higher Class English School, Honorary Treasurer to the Vidyasagai Widow Mairiage Association, Hon-



Mr G C BURAI

orary Auditor to the Subarna Banick Somati, and member of the Executive Committee of the Calcutta Deaf and Dumb School

The BURDWAN RAJ FAMILY

This ancient and powerful family
dates its rise in Bengal from the be
ginning of the 17th century The
founder of the House of Burdwan
was Abu Rai of Kotli, in Lahore,

unfortunate in the child chosen for adoption under the late Maharaja's will for this child, the first to be selected died prematurely this connection turned out to be for the best and the Maharaja Bahadur was chosen for adoption He is the son of Raja Bun Behari Kapur, CSI who was Joint Wanager of the Estate from the death of the late Waharaja in 1879 and Sole Wanager from 1891 to 1902 The present value of the present adopted Waharija

and the idoption was ratified by the Government in July 1887 He est ites from the Court of Wards on 19th Octoinstalled as Waharajand was Burdwan on the 10th Bahadur of February 1903

 $BIJ_{11}^{N_{1}h_{11}} \underbrace{}_{CH_{1} \searrow D}^{N_{1}h_{11}} \underbrace{}_{D_{1}}^{J-1} \underbrace{}_{dh_{11}}^{h_{11}} \underbrace{}_{D_{1}}^{J}$ TAB BAHADER Walls ry-Adhraj of Burdy an The Waharya is the premier nobleman of Bengal He was born on the 19th October 1881 and succeeded the Inte Waharaja Chand Mahtab Bahadur on 31st July 1887 hav ing been adopted by the late Waharani Benodeni Devi the widow of the late Waharaja who had received authority adopt a son by her late husband's Government ratified the adoption in July 1887

When adopted the Wilhirm wis only six years of age and in consequence had to pass through a long period of minority, his estates being meanwhile administered by the Court of Wards Lala (now the Court of Wards Laia (now Raja) Bun Behari Kapui, the father of the present Mapur, the who had given his son in adoption to the late Maharani acted Manager of the estates under the Court of Wards He carried out the work with singular ability and conspicuous success. Much atten tion was paid to the education of

the young Waharara to lit him for the high position he was one day to occupy In his childhood he was placed under a Furopean gov erness, and as he grew older his education was entrusted to Babu Ram Varayan Dutta, BA , who as a scholar and was also distinguished for his high character Babu Ram \arayan, who was Principal of the Burdwan Raj College, took great Puns to discharge his trust, and to bring his pupil's education

great aptitude in the management of his estates since taking charge, and personally attends to all details This forms no mean trust, as the landed property is situated in 19 different districts comprising an area of about 4.134 square miles, with a population of some 2,000,000 souls The total collection of the Burdwan Ry exceeds that of any other estate in Bengal The demands on account of the rents and cesses now amount to a total of nearly 471 lakhs, to which figure they have risen from the

411 lakhs which repre sented their amount in 1885, when the Court of Wards took charge The Waharaja is by caste a Kapur Kshattriya He is the only Kshattriva Prince in India and is the acknowledged head of the entire Kshattrija community throughout India The public bene ficences of the Maharaja are considerable supports ? College ; Burdwin where free edi H_{c} crtion is given to Bengal Nouths up to the first Arts standard, He also supports a High School it Kalna and a Free Sanskrit Chatoospathi or College and 7 Girls School at the same town at his own cost m_{71} t_{71ns} Thikurbitis or temples numerous at Burdwan and Kalna where the poor are duly where the poor are a my ted and Sadabratas of Ilms Houses, where ra tions of rice and flour are distributed daily to all who apply for them The

Namabhit are frequently visited by 108 temples of Siva at tourists of ill classes. The palaces and gardens of the Maharaja are numerous tiful of these are the Mahtab Manjil Imong the most beau with its fine colonnade on three sides, and the Summer Palace known as 'Dilkusha' built in the midst of r beautiful garden with an aviary and menagerie attached to it Maharaja s Calcutta residence is Bijay Manjil', at No 6, Alipur Lane, and his hill residence is Rose Bank", Darjeeling The hereditary title of Maharaj-Adhiraj,



to a high standard of efficiency To complete his education by initiating him into the jules of European society, Mr 1 Harrison was appointed to be a companion to the Young Maharaja in 1894 The care which was bestowed on his education has been amply Justified and the Maharaja has grovn to be a fine specimen of an Indian nobleman, both physically and mentally He installed on the "Gadi" by IIIs Honor the Lieutenant-Governor of Bengal on his coming of age in 1903 He has shown

Assemblage held at Delhi, the right to receive a salute of 13 guns was granted to Maharaja Mahtab The title and style of "His Highness" as a personal distinction was also conferred on him on the same occasion. His Highness Maharaja Mahtab made large and valuable additions to the ancestral possessions of the Burdwan Raj He purchased the Kujang and sujamutha estates. He was one of the pioneers of the hill station of Darjeeling, and it was his practice to spend the greater part of the

He was born on the 8th August 1860, and was adopted on the 19th March 1806. In oacurs after he accession, Maharaja Affab Chand attained his majority and marker he was mistalled by Sir Ashley I den the then I icutenant Governor of Bengal on the 7th December He was confirmed in all his honours and possessions by a "Sanad" dated the 12th August 1881 under the scal and signature of His Lecellency the Victory and Governor-General of India (Lord Ripon) Maharaja Affab Chand did not

Calcutta University He conferred upon the town of Burdyan the bencht of a public library in the Burdyan Ray I drary which he established. He also made a munificent gift of Rs 50,000 to the Burdyan Municipality for the establishment of the Burdyan Water Works. Maharaja Affab Chand died on the 25th March 1885. He left a young widow. His adoptive mother, the Maharani Dowager, and also a vidoved daughter of his adoptive father survived him Maharaja Affab Chand left a vill



DILKUSHA, BURDWAN

year at that station for a long time He purchased valuable estates in the Darjeeling and Kurseong hills, which yielded a revenue of about Rs 33,000 per annum He built extensively at Burdwan, and all the palaces at that centre owe their existence to him particularly the beautiful Dilkusha Garden, which remains as a monument to his æsthetic taste Mahtab Chand Bahadur died on the 22nd October 1879 On his death Maharaj-Adhiraj Aftab Chand Bahadur succeeded to the "Gadi" He was the adopted son of Mahtab Chand

inherit the good fortune of his pie decessors, with their possessions Maharaja Tej Chand had occupied the "Gadi" for 60 years and Maharab I (Mahaba Chand Bahadur) for 47 years Mahab II (Maba Chand Bahadur) had but a short reign of four years after his installation, but in that time he was active for the public good and spent a great deal of money on objects of utility for the community at large. He raised the Burdwan Raj School to the status of a College, teaching up to the First Examination in Arts standard of the

in which he directed his widow to adopt a son to him as soon as possible after his death. As, however, the widow was a minor, the estate came under the administration of the Court of Wards, who assumed charge and declared the widow to be their ward in accordance with the recorded wishes of the Internal Events for a time became troubled and hitigation arose between the ladies of the family Mr. I de Burgh Miller, one of the Joint Managers under the Court of Wards, died in 1886. The widowed Maharani was equally

Raja BINAYA RRISHNA DEB is the Jounger of the two sons of the late Maharaja Kamal Krishna Deb Bahadur, of the family of the Sobhabazar Rajas

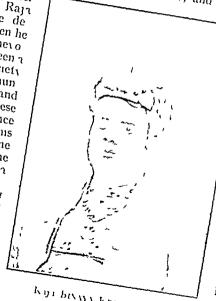
The founder of the family was Mahalaja, Nub Kissen Bahadui Political Banyan to the East India Company and Persian Secretary to Lord Clive Raja Binaya Krishna was boin in lugust 1866. educated by pinate turois in his father's house In his teens he took the keenest interest in the Sobhabizar Debating Club, an institution established on his pre miscs at the instigation of his Inmented elder brother, Kumai Veel Krishna who was its secretary.

The club served a particularly useful purpose and brought together many scholarly men regularly participated in the de The Raja bites. At the age of seventeen he founded the Sobhabara Benero lent Society, of which he has been a munificent supporter The cociety has given charitable rehef to hun dreds of poor students, widows and orphans His association with these societies gave him an experience that stands him in good stead in his present position. The Raja is one of the most scholarly men among the anstocracy of Bengal, and makes a specialty of Instory and biography He is the founder of the Bangina Sahitya Parishad and the Sahitya Sabha, societies established for the cultivation and advancement of Bengali literature work entitled "The Euly History and Growth of Calcutta," is the His English result of careful and laborious re search, and has been favourably enticized by the press and many notable individuals

In recognition of this contribution he was elected on the 27th April, 1907, Vice President of the Calcutta Historical Society In the letter informing him of his appointment the Honorary Secre tary of that Society writes, "I night be perm tted to say that your election is not only popular but distinctly appropriate in view of the fact of Jour valuable contribution to the History of the Province and your historical lineage"

The Raja is an active worker in social and political life At one time he was a leading spirit and active supporter of the Indian As

sociation of Calcutta Of the Indian National Congress he was in his ently days a zealous supporter He acted as its honorary secretary and freasurer for a year, and successfully nandled the funds of the institution He co operated with Mi Hume and others in establishing the Bengal National League, and was the president of the Bengal Social Conference held at Calcutta, as well as president of the Bengal Pro Vincial Conference at Bhagulpore He was the chief supporter of the agitation against the Bill which threatened Local Self Government in Calcutta ever been to maintain the loyal His ambition has traditions of his family, and to be



Kyr biywa Krishya Dib

at once a friend of the people and

an interpreter of British rule
The family of the Sobhabazar Rajas has ilways held i leading position in Hindu society, and Raja Binaya Kiishna who is the worthy representative to day, occupies a position of high social influence Apart from customary religious and social festivities, his house has been the scene of many social func tions, where Europeans and Indians have been brought into contact, and he has stood forth as the re presentative of his own society to do honour to a ruler or a distinguished European visitor As president of the Indian Social Conference, held in Calcutta in 1901, he set forth

his views on social questions in a systematic manner He has been a steady and energetic organizer of a movement to encourage sea voj ages among Hindus, and he has also helped a movement to rectify the Hindu Almanac of Bengal ally, he is particularly agreeable, tery accessible and always ready to do a good service He liberally supported the newspaper India, published in London, when Mi WC Bonnerjee the eminent Calcutta bar uster took keen interest in the under taking, and gave with his whole heart material and moral help to the Bengalee and the Amrita Bazar Panika when those papers were converted from weeklies into dailies He maintains at his own cost many schools Madiassahs, chantable dis pensities and other works of public utility in his zemindaties The Raja has the courage of his convictions and has not hesitated to face unpopularity, both with Government and his own compatriots When anti plague inoculation was a novel experiment in the country and drimingly unpopular, he had his whole family and his adherents inoculated He has been foremost in helping Joung men who have travelled to Europe to be re admitted into Hindu society, and poor authors and struggling men of merit have found in him a leady helper

He lost his father in 1885 and his brother in 1891 Government have freely recognized his position and his services He was made a Raja in 1895 and received a Kaiser 1 Hind Medal of the second order in 1902 He is now a Government nominated Municipal Commissioner of the city of Calcutta, a member of the District Board of the Twenty four Perganas, and of the Alipur Reformatory School, a Visitor to the Alipin Central Jail, a memberiof the Visiting Committee, Campbell Medical Hospital, and a Governor of the Mayo Native Hospital He is ilso IV sit ng member of the Hidu and Hare Schools and is a member of the Committee for framing laws for the Reformatory Schools in Bengal He is progressive but not revolutionary, either in politics or society, critical but appreciative of the measures of Government Although a representative popular opinion, he reserves to

held by the Burdwan family since the time of the Mogul Emperors, was recognised and confirmed to the present Maharaja by the Viceroy and Governor-General of India at the Coronation Durbar held at Delhi on Ist January 1903 The title of Bahadur, was added to it as a personal distinction by the Lieute nant-Governor of Bengal at the In stallation Durbar held by him at Burdwan on 10th February 1903 The whole title of Maharaja Dhiraj Bahadur was conferred as a hereditary distinction on the 26th June 1908 by the Viceroy The Maharija relieves his onerous public duties by the study of literature and is him self a writer of note He has written a book entitled "Studies" which is a collection of excellent essays on the various topics of the day He has a special facility for poetry and his song-book styled the "Bijay Gitika" has been very favourably received by the Indian Press and public Maharaja has also travelled a great deal, and in April 1906 paid a visit to Lurope, accompanied by his Private Secretary Mr P Chatterjee, and his Medical Attendant, Dr S B Wuker-Jee On this occasion he travelled over the greater part of the United Kingdom and the Continent, returning to India after an absence of eight He has two children, the Maharaj Kumar, born on the 14th July 1905, and the Maharaj Kumari born on the 16th September 1907

CHOUDHURI, MA, BL, Was born YATINDRANATHA in 1863, of an ancient Zemindar family of Bengal, belonging to the high caste (Kulin) Bangaja Kayasthas of the Guha clan The family to which Raya Yatındranatha be longs is known as the Munshi House of Bengal, and some of his ancestors were prominent men His great grandfather, Ramkanta Ray Choudhuri, was the 'Munshi', of Warren Hastings, and was highly esteemed by him Ramkanta's son Gopinath, gained for the family high respect in Calcutta kanta's grandsons, Raya Kalinath and Raya Vaikunthanath prominent leaders of the Bengal community in the days of Lord William Bentinck In his fourth year Raya Yatındranatha was adopt ed, according to Hindu practice by the widow of Raya Mathuranath

Choudhuri, who died in 1863 carly education was much neglected for the executor under his father's will only, acted is such for a short time, and the guardian who was next appointed did not carry out his duties properly But from early boy hood Yatindran itha was of a naturally studious nature and succeeded so well in his self-imposed so irch for knowledge that he completed most brilli int, collegiate circer it the Calcutta University he took his B \ degree, following this up by taking his W A the follow $I_{n-1\delta\delta_5}$ ing year, and in 1885 he took the degree of BI In 1896 he w is elected



RIVI TATIVDRIVATIIA CHOUDINGRI

a Fellow of the Calcutta University During his early years the estate which had been left him was minaged by others, his elder brother, when he attained majority, holding the management for few days But the cares of management devolved upon him and he had to take over charge of the estate while still reading in the second year class of the Presidency College His energy under the circumstances was remarkable, as even with these cares upon him, he suc ceeded so well in his University career He has been a great patron of literature, His first venture in this line was the establishment of a medical Journal called Chikitsa Sammlan, the object of which was to effect a reconciliation of the

different systems of medical science It was mainly through his sugges tion that the Bingiva Sahitya Parishad succeeded in collecting and Publishing valuable ancient manu scripts in Bengali He was instru mental in securing the compilation and publication of a Life of Waharajah Pratapaditya, and a Social History of Beng il with Particular reference to the Jasohar Samaj In issisting young men to obtain a good education he has been very liberal Besides sons of near relations whom he has helped in this tay he has aided many others by paying their school fees and boarding charges He av ards a Silver medal vearly to the students of the Perojpur School in Buckergunge for proficiency in English and Sinskrit He has not and add educational establishments at various places but has founded new ones within his own zemindaris, ind built a Boarding House for Hindu students attached to the Taki Government School His ovn line of study has been com prehensive On leaving College he read Sanskrit gramm ir thoroughly, and studied the Vedanta and Nava and other schools of Hindu Philosophy with renowned Pundits ac juiring thereby such proficiency in Sans knt that he is competent to discuss intricate philosophical problems with the ability of a typical Pundit Raya Yatındranatha has been very forward in the cause of charity and freely aids many poor families with monthly and yearly grants of money He has made free grants of land to many Kry isthrs and Brahmins on which to build houses He has offered a substantial donation towards the dramage scheme of the Taki Muni cipality, which is being prepared at his instance He is a good landlord to his tenants and never backward in showing consideration and giving them help when needed He has done public service as Secretary to the Bangiya Sahitva Parishad de voted to the Bengali language, and as an active member of the many leading associations in the country, he voices the aspirations of the educated Indians of the piesent day He is Secretary of the Provincial Congress Committee of Bengal, Honorary Treasurer of the National Council of Education and Vice-President of the Bangadesiya Kayastha Sabha

in conjunction with Sir Chandra Madhab Ghose and the Honourable Mr Justice Sarada Charan Mittia, is endeavouring to effect some much-needed reforms in the social customs of the Karastha community of Bengal

The DUDHORI\ F\MILY-The settlement of the Dudhoria family in Bengal dates from 1774, when Harji Mal Dudhoria, with his two sons Sabai Sing and Mauji Ram, migrated from Rajaldesar in Bikanir, Rajputana to Azimgunge in the Murshedabad District, where they started life in their new home as dealers in indigenous cloth. They were industrious and successful in their business operations but the real prosperity of the family began with Babu Harek Chand Dudhoria, a great-grandson of Harn Mal, who not only carried on the business in country-made cloth, which had attained extensive proportions, but opened a money-lending agency, with branches in Calcutta, Serajgunge, Azımgunge, Jangipore and Mymensingh Harek Chand died in 1862 a comparatively rich man, leaving two sons, Babus Budh Sing and Bissen Chand, to carry on his

business The Genealogical Table on lage 197 will show the descent of the present heads of the family, viz, Rai Budh Sing Dudho ria Bahadur and Babu Buoy Sing Dudhoria

Bijoy Sing Dudhoria
At the time of their father's death, the two sons were but boys, having been born in 1847 and 1852 respectively But they possessed good business talents and energy, and as they grew to manhood, they lost no opportunity of increasing the already flourishing business which they had inherited Budh Sing was patient and industrious, while Bissen Chand was distinguished for his keen business penetration, firm grasp of detail, and prompt decision The two brothers lived in harmony together, and were not long in making their mark in the world They extended their moneylending business in several

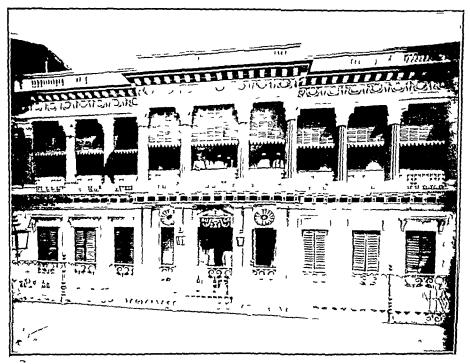
districts, and opened Banks at Calcutta, Serajgunge Mymensingh, Jangipore and Azimgunge The public had unbounded faith in the



RAI BUDH SING DUDHORIA BAHADUR

honesty and integrity of the bankers, and their business prospered accordingly Gradually

they began to invest in landed property, and ultimately became Zemindars, owning extensive lands in the districts of Murshedabad, Mymensingh, Birbhum, Nuddea, Faridpore, Purneah, Dinajpore, Rajshaye, Malda, Bhagalpore, and Dumka The brothers were bent not merely upon amassing wealth, but on putting it to good use when acquired They helped the poorer members of their community in various ways fed thousands of the hungry in times of famine by opening Annachatras or poorhouses, clothed the poor contributed to charitable and other funds, constructed, or caused to be constructed by the ladies of their families, Dharmsalas and temples in several parts of India for the use of their co-religionists and embarked on various other schemes for the public welfare. As their charities extended, so also did their reputation, and when Sir Ashley Eden, then Lieutenant-Governor of Bengal, visited Jangipore (the venue of his early labours in another capacity), he honoured the brothers by paying them a visit The Bengal Government, too, showed their appreciation of their



Rai Budh Sing Dudhopia Bahadur's Residence

himself independent judgment. The founder of the Riji's fimily, the famous Mahariji Nub Kissen Bahadur, was the first native of India to realize the true position of the English in India. He was a man gifted with rare foresight and political presence (vide Governor Verelst's views of Bengal and the Memous of Nub Kissen). He grasped the position of affairs with statesmanhle ability and laboured to bring about social fellow feeling between the Linglish and the Indian. To this end he

frequently entertuned the English One of the most notable entertunments in this connection was held to commemorate the victory of the Battle of Plasses He was happily connected with the festive seison of the Hindus, the Durga Puja, and the family have, for the past one hundred and fifty years, regularly observed the cere mony, the festivities it the house of the Sobhabazai Raias have become quite an Raja Binaya institution Krishna, the lineal descen dant of the Maharaja, has kept up the tradition of his family, and his parties on the occasion of the Durga Puja are popular and frshionable with the Euro pean residents He is just to his raiy ats, and successful in his undertakings Not withstanding his essentially English education and his remarkable familiarity with the various phases of Wes tern life and thought, he is an orthodox Hindu, and is universally recognized as the head of the oithodox Hindu community in Bengal

Raja GOPENDRA KRISIINA DEB was born on the 15th December, 1850, and is the eldest surviving son of the late Maharaja Bahadui Sir Naiendra Kiishna Deb, KCIE, and great grandson of Maharaja Bahadui Naba Kiishna Deb, well known as one who played a prominent part in the days of Lord Chive and Warien Hastings Raja Gopei dra was educated at the Hindu School, from which time-

honoured institution he matriculated in \$267. He attended the Presidency (office and obtained the distance of Arts from the Calcutta University. When the Government of India de ded to from inles under Parliam nearly. Status for appointing directly, young to the appointing to the Covenanted Cayl Service the Raja applied for an appointment in the cay of but was induced by \$1 Refined Lemple at that time Leuterant.



Ryc G K Dir

Governor of Bengul, under the promise of being idmitted to the Civil Service later, to accept the post of Deputy Magistrate and Collector of Howish, in 1876. In appointment to act as Registrar of Assurances and Joint Stock Companies followed next year. His next charge was as Deputy Magistrate and Collector of Berhampur, which he held for one year, and was then placed in charge of the three subdivisions of Culna, Baraset and Sealdah. In November, 1882, Su

Richard Lemple's promise was substantiated, and the Kuja was admitted to the Statutory Covenanted Cv1 Service and appointed Assist ant Marstrate and Collector. He used on one occasion as 2nd. In prefer of Reastration Office, or mother as Marstrate and Collector of Luidpur, and three times as Marstrate and Collector of Luidpur, and Collector of Pubnath then hald as has substantic appointment the post of Inspector Correct of Recastration, and in the course of promotion in due time viewagionted to officiale as Civil

und Se tons Judge of Duct He was silve quently confirmed in this grade and posted as District and Sessions Tudge to Nadi-He next in succession, held the oppointments of Di trict and Sessions Judge of Burdwin and Hughli In December 1995 he retired from the service having attimed the age limit of 55 years. He did good work during his official circer and wis twee ment and by the Judges of the High Court in their innuit reports for his card and crimical work of District and Sessions Judge of Hugh On the 20th June 1505, the title of "Raja" was conferred upon him in recognition of has meritonous services and m honour of his position as he id of the historic Sobh ibigir Rij family He is now President of the Bengal Kivistha Sabha, having been un inimously elected by that body for the present year This Society is one of the most important associrtions in Bengal, and the

office of President has been successively filled by such distinguished leaders of the Kayastha community is the late Maharaja Bahadur Su Naterda Kaisha i Deb the Maharaja of Danajpur and Sir Chandra Madhub Ghose The Raja has also been elected one of the Vice Presidents of the Bratish Indian Association Raja Gopendia Kaishaa Deb is now evincing great interest in social matters. Since his retirement he has devoted himself entirely to the service of this countrymen, and

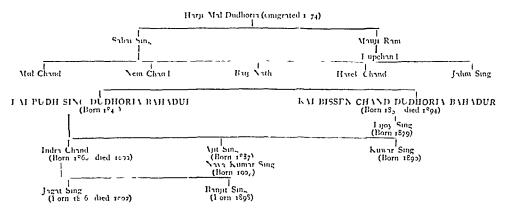
tions and contributions for public and charitable purposes has reached a very high figure

The present heads of the family are Rai Budh Sing Dudhoria Bahadur, and his nephew Bijoy Sing Dudhoria to whom he acted as guardian during his minority. Rai Budh Sing Bahadur obtained a certificate of Honour on June 20th 1897 on the occasion of the Diamond Jubilee of Her late Majesty. The Queen-Empress and another Certificate on the occasion of the

the members of his community with veneration and respect

Babu Bijoy Sing, soon after he attained his majority began to take an interest in public affairs. In 1902 he was nominated by the Government a Commissioner of the Arimgunge Municipality and at the general election of the Commissioners held in 1906, he was elected Chairman of the Municipality For a young man of twenty-seven to be placed at the head of the Municipal administration of two

Bijoy Sing are both stately structures, and are richly furnished. The residence of the latter is called "Riverside," from its situation on the bank of the *Bhagirathi*. The collections of jewellery in both families are rare and of great value. The family is counted among the aristocratic families of the district. His Highness the Nawab Bahadur of Murshedabad and his sons the Princes have from time to time attended the festivities held in the family mansions at Azimgunge.



Coronation Durbar at Delhi, "in recognition of his liberality and public spirit " He has been twice By his first wife he had married one son, Babu Indra Chand, born in 1868, who was of an enterprising disposition, for, while studying English under Furopean private tutors he was led by youthful curiosity and the attractions of the Paris Exhibition to make a journey to Europe without the knowledge or consent of his people He was married to a daughter of Rai Setab Chand Bahadur of Azimgunge, and died in 1899, leaving two sons, Jagat Sing and Ranjit Sing, minors, under the guardianship of their grandfather Jagat Sing died in 1902, just after passing the Entrance Examination By his second wife, Rui Budh Sing has two sons, Ajit Sing, born in 1887, and Kuwar Sing born in 1890 The first of these Ajit Sing is married to a daughter of Babu Narpat Sing, Zemindar of Harwat Rai Budh Sing is a typical gentleman, of the old school of Juns, which is rapidly passing away. He is kind, affable, and generous in his dealings, and is looked upon by

important towns such as Azimgunge and Baluchar shows the confidence of the rate-payers and their elected representatives in his ability and desire to promote the public welfare. Subsequent events have proved that this confidence vas not misplaced for the authorities have been satisfied with his administration and have placed on record their appreciation of his excellent administrative powers In 1907 Babu Bijoy Sing was appointed an Honorary Magistrate of the Independent Bench at Lalbagh in which capacity he has been satisfactorily discharging his duties He was appointed a member of the General Committee of Lady Minto's Fete, in which he took great interest He is at present removing a local want by constructing a suitable building for the Jiagang Edward Coronation Institution, at a cost of Rs 12,000, for which the local public are deeply grateful to him He is now on the threshold of a useful career, and has made a very promising begin-

The family residences of Rai Budh Singh Bahadur and Babu

The Honourable MUNSHI MADHO LAL, Benares, was born in 1840 at Benares, of a distinguished family of Sepahi Nagar Brahmins The history of the Sepahi Nagars from whose stock Munshi Madho Lal sprung is a very interesting one Originally settled at Ahmedabad in Guzerat, they were always distinguished for their orthodox Hinduism, and through long centuries they upheld the religious and political liberties of their countrymen and co-religionists through all the troubled times produced by the successive Governments which have passed like waves over the country Early in the eighteenth century some leading men of these Sepahi Nagars left their homes at Ahmedabad and emigrated to the more northern parts of India Belonging to a very respectable sect of the Panch Dravidas they were welcomed in their new homes by the other sects of Panch Dravida Brahmins previously settled in these parts Several Sepahi Nagar families came from the Guzerat side with the famous Raja Bahadurji, himself a Sepahi Nagar, to Delhi about 1729

hberality and public services by conferring on both the brothers the title of Ru Buhidur is a personal distinction. They were also appointed Honority Migistrates of the Lalbuch Bench in Murshedabad where they sat for several years.

In 1877 the banking and moneylending concerns having attuned vast proportions the brothers separated and from that time c arried on their respective businesses under distinctive names Their landed properties however remained joint properties and are to this day in part managed jointly But though divided as to their business interests brothers still remained united in all other respects and prospered exceedingly each in his own line

In 1894 Ru Bissen Chind Bahadur the vounger brother died, after a short illness and vas succeeded by his only son Bijot Sing who was then a promising lad of about fourteen vears of ago. The charge of the minor and of his vast estates was undertaken by Ru Budh Sing Bahadur v ho vas appointed guardian by the District

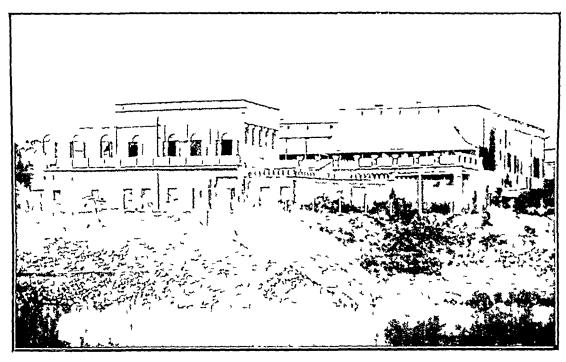
Judge of Murshedabad Though the management of the tyo estates had now devolved upon the elder brother he ably discharged his oncrous duties. He gave Bijox Sing a sound and liberal education



Babu Bijov Sinc Deditority

at home under the tintion of Pahu Ahmis Chandra. Dis ver ett, and when in December 1900, the former attained his majority he vis vell litted in every repect to assume the direct chase of his estates. He is a intelligent youn man of a reat promise anishle in diposition and possessionally excommon sense and he has inherited the sime farm grap of ditail and quiel decreation to which has father visualistically a distinguish he is married the younget daughter of Ru Dhanpat Sine. Dur un Bahudur of Bahudur.

The members of the Dudhorra family or projection and have founded Dharmalis or Mount Abu on the Para nath Hill in Hiziribi hait kani in Marvar at Azimennia and it Bombay have also constructed a temple at Gridhi and moth rat Imapore a Dharmsda at Payapuri nar Behar also a charitable dispussive and hospital at Janapore. They have muntamed for a long time past a school for Ben altegirls at Azimgunge and Jam Pat-das for the boys of their coreligionists at Azimeunge Puhtana and Dhorap The total amount of their don't-



' RIVERSIDL AZIMGUNGE
Babu BIJOY SING DUDHORIA'S RESIDENCE

people, and a compliment was paid to his character for fairness and just dealing by the honour he received at the Coronation Durbar at Delhi, in his appointment by Government as a Judge for the award of prizes and rewards in the Coronation Art Exhibition The artistic taste which he brought to bear upon his duties in this connexion attracted the attention of Lord Curzon, then Vicerov, v ho publicly thanked him for the valuable assistance he rendered to the Government on The high integrity that occasion of his character has von for Munshi Madho Lal the esteem and

admiration of a large circle o f European friends, and he has been honoured with the membership of several European clubs He still retains the membership of the European Club at Benares Munshi Ma dho Lal has evinced a strongly benevolent disposition Durıng the times of famme he

took up the cause of the distressed people He assisted them in many ways opening relief works in his villages, in the different districts of the For this service he reprovinces ceived the thanks of Government In memory of his younger brother Munshi Sadho Lal he built a separ ate ward in the Prince of Wales' Hospital, Benares He placed a sum of Rs 45,000 at the disposal of the Benares Government Sanskrit College for the purpose of establishing the Sadho I al scholarship, for students who wish to pursue their studies in Sanskrit

private life Munshi Madho Lal has won the respect of all by the nobility and purity of his character His Brahmin ancestry and educa-tion have made him an admirer of the Vedas, a lover of Brahmins and of the pure Brahminic life He has performed three great "Yaınas." considered the sacred duty of a true and devoted Brahmin In Benares he frequently holds meetings of the great Pandits and takes keen interest in discussing great social and religious problems

In aid of the Benares Sanskrit Library he subscribed a sum of Rs 25,000 His devotion to the

BALAPUR GARDEN PARTY IN HONOUP OF SIR JAMES AND LADA Diccis In Totalli, 15th Ichiumy 1904

public affairs of his country has brought him prominently forward on many occasions In 1905 when it was decided to hold the Indian National Congress at Benares the apathy of the people would have wrecked the project, but that Munshi Madho Lal threw himself into the cause, and by his personal qualities of perseverance, firmness self-control and judgment, as well as by his ample resources in men and money, brought the session to a successful issue. The friendly to a successful issue relations which existed between the members of the Local Government

and himself contributed largely to As Chairman of the this result Reception Committee, Munshi Madho Lal performed a most difficult task in controlling a most turbulent committee, which task he carried through with success No visionary dreamer, Munshi Madho Lal's conduct of affairs was characterized throughout with modera-His speech delivered as tion Chairman of the Reception Committee is described in the Report of the Congress as a plain, strughtforward utterance of a practical man, well experienced the politics of this country" At this

Congress 1t was due to his strong action that the proceedings were not marred by a minority of mal contents, including Laput Rai and Bal Gangadhur Tılak, who strongly opposed the resolution adopt ing an address welcoming the Prince and Princess of Wales to India As President of the Reception Committee

he crushed the unseemly opposition, declaring that he would order the dissentients out of the hall Addressing the meeting he pointed out the different treatment such a movement would receive in the Native Indian States and in Russia The resolution as a result of the spirited action of Munshi Madho Lal was carried by acclamation This meeting of the Congress was distinguished by the most important of recent Indian movements It was here that Swadeshism was born In this year (1905) was held for the first time the Industrial

It was after this time that Munshi Madho Lal's ancestors came down to Lucknow and other places in Oudh, and took service under the Mussulman Government of the



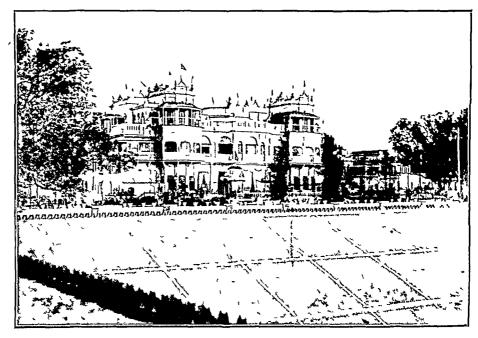
Hon Munshi Midho I al

Nawabs, as Amaldars or Tehsildars Over a hundred years ago Munshi Madho Lal's great-grandfather, Mehta Bhawani

Lal, established himself at the sacred Hindu city of Benares He had three sons, Lala Lakhmı Lal, Lala Govind Lal, and Girdherlal Munshi Lala Lakhmı Lal entered the legal profession, and became a successful Government pleader at Benares and his two brothers also served the local Government of that time The hereditary title was conferred upon them and by degrees they attained the status of first class Rais of the North-West Provinces Being born of a high Brahmin family Munshi Madho Lal received the sound home education of the learned caste to which he belonged He was also inducted into a thorough knowledge of Arabic and

Persian, which were at that time the Court languages of these Provinces From home he proceeded to Queen's College Benares, to prosecute his studies in English, in which he attrined the second standard of the senior class Leaving school he devoted himself to the study of law, and passed his Munsiffship or Sudder Court Pleadership examination in the year 1860 obtaining first place in the list of successful candidates For a few years he practised at the Benares bar and then transferred his practice to the Sudder Court at Agra As a special act of favour he was offered a second grade Munsiffship by the Government and he accepted the appointment In this post he was in his element His knowledge of law obtained full scope, and the authorities who fully recognized his abilities and legal acumen and had at various times complimented him upon them, promoted him, till in due course he was appointed a first class Subordinate Judge Even while a Munsiff he had also acted as the Judge of the Small Cause Court at Allahabad, an appointment which carried great honour in those days While holding this post he was one of the Commissioners deputed in

the well known Saunders-Harsahai case In this case he differed from his colleagues and for some time came under the displeasure of the authorities, but the Government subsequently recognized the sense of justice that influenced his views Mer a long and devoted service listing over 25 years, Munshi Madho Lal found himself obliged to retire, oving to his younger brother's failing health and the press of vork on his own estate But he did not remain permanently in retirement The agitation caused by the Tenancy Bill made a strong appeal to his public spirited nature, and he recognized the demand for his services in the cause of the public. He was pressed by the people to put himself forward at this critical period, and he therefore stood as a candidate for the Provincial Legislative Council and was enthusiastically elected a member of that council in 1900 In the two next consecutive elections he was re-elected a member of the Local Provincial Council and in October 1906 he was elected a member of the Imperial Legislative Council, in which capacity he is still serving He has done very good work in all these capacities, for the Government as well as for the



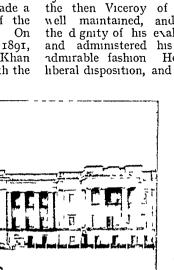
BALAPUR RESIDENCE OF MUNSHI MADHO LAL

Meerza, Khan Bahadur, is the eldest son of the late Nawab Sir Svad Hassan Alı Khan Bahaduı of Murshedabad the eldest son of the late Muntazim ul Mulk, Mohsin ud Daula, Faridun Jah, Nawab Syad Mansur Ali Khan Bahadui, the last of the house to bear the title of Nawab Naz m. Subadai of Bengal. Behar and Orissa The present Nawab is thus eighth in descent from Meei Jafar, Nawab Nazim of Bengal, twenty sixth from Imaum Hoossein, thirty seventh from Ali, and thirty eighth from the Prophet Mahomed It was not till the year 1880, that the last Nawab Nazim, Svad Munsur Alı Khan, resigned his position and titles, in which act he was subsequently confirmed by his son and heii, Sir Svad Hassan Ali

Khan, by means of a legal document executed in convention with the Government of India. TP ceiving ın return a fixed hered tary posisettled 1T ~ come,landed estates, the rank and dignity of Premier Noble in Bengal, and the

hereditary title of Amir ul Umra, privileges which have descended to and are held by the resent Nawab Asıf Alı Meerza, Khan Bahadur The present Nawab's father, Nawab Sir Syad Hassan Alı, Khan Bahadur, was born in the year 1846, and educated under private tutors He was sent to England in the care of Colonel Herbert in the year 1863, to complete his education He remained in Europe for some years and had the honour of a presentation to the late Queen Victoria, by the Secretary of State Previous to the year 1880, he returned to India, when his father, the last Nawab Naz m of Bengal, executed the act of resigna tion which for ever abolished that title At this time his father retired, and on the 27th March, 1883, Syad

Hassan Alı Khan succeeded to the Musnud, the title of Nawab Bahadur having been conferred on him by "Sanad" earlier, ie, on the 17th February, 1882 Honours were showered upon him He was created a Knight Commander of the Order of the Indian Empire on the 16th February, 1887, under a Royal Warrant bearing the sign manual of the late Queen Victoria The titles Ihtesham ul-Mulk. Rais ud Daula Amir ul Umra, and Mahabut lang, were conferred upon him on the 20th May, 1887, and on the 20th May, 1800, he was made a Knight Grand Commander of the Order of the Indian Empire On the 12th March in the year 1891, Nawab Sir Syad Hassan Ali Khan entered into an agreement with the



THE PALACE OF THE NAW AB OF MURSHEDABAD

Secretary of State whereby he confirmed his father's renunciation, for ever, of the titles of Nawab Nazım and Subadar of Bengal. made in 1880 This agreement was subsequently incorporated in Act XV of 1891. It was at this time that the Nawab Bahadur received, as a guid pro guo, a fixed hereditary position, with a settled income, certain landed estates in several districts of Bengal, and the rank, precedence, privileges, and dignity of Premier Noble of the three provinces of Bengal, Behar, and Olissa, with the hereditary title of Amir ul Umra, all descend able to his male lineal heirs according to the right of primoge niture, besides the income of the The late Nizamut State lands

Nawab was distinguished by the great diligence with which he worked to effect the vast improvements which he made in all branches of the Nizamut Unfortunately, in 1890, he was stricken with paralysis, a calamity, however, which did not prevent him from showing the greatest administrative activity in the suc ceeding years, during which his physical incapacity was not allow ed to interfere with his mental energies In 1902 he was honoured by a visit from Lord Curzon. the then Viceroy of India He well maintained, and improved, the dignity of his evalted position and administered his estates in admirable fashion. He was of a liberal disposition, and his charities

were extensive and not limited by considera tions of religion or na tionality He was influenced by the truest public spirit When Lord Curzon for mulated his scheme for the founding of the Victor a Memo rıal Hall at Calcutta, the Nawab Sir Syad Hassan

Alı Khan veluntarıly came forward with the offer of many of the beau tiful and unique objects of historical interest in his possession, which it had been his particular care to collect and preserve In the year 1895, the pressure of years and loss of health induced him to initiate his eldest son into the administration of the affairs of the Niza mut, and to invest him with full authority, but he lived for many years after this, devoting his life to many estimable objects He experienced another misfortune in 1897, when the severe earthquake in Bengal wrecked the great palace of Murshedabad, which was built in 1837, at a cost of sixteen lakhs of rupees On this occasion the late Nawab had a narrow

Conference which has been declared by many sound thinkers, both European and Indian, to be the most important achievement that the Congress has brought into existence. It was absolutely a non-political movement, and in it all those who have the welfare of the country at heart irrespective of political bias and other differences could meet. The report of the Conference makes it clear that the

moving spirit in this benign departure was Munshi Madho Lal Chairman of the Recep tion Committee But for his co-operation the report states that the Conference could not have been held at all He smoothed over the differences that arose and laboured hard for its success The President Mr R C Dutt in his concluding speech, alluded to the Munshi as "the life an I soul of the movement " In connection with the Congress and Industrial Conference was held for the first time an Indian Industrial Exhibition, with the largest and most varied collection of indigenous goods ever brought together in this country This practical demonstration of the feasibility of Swadeshism went tar to establish the move-

ment In this, also,
Munshi Madho Lal was the most
prominent promoter. For his services, and his generous support and
encouragement of Sanskrit study
Munshi Madho Lal received an unprecedented honour at the hands
of his co-religionists at Benares
In addition to a highly eulogistic
address from the most prominent of
Hindu Pandits he was presented
by that distinguished and represen-

tative Sanskrit scholar. Mahamahopadhya Gangadhur Shastri. 6.1.1 vith copies of the four Vedas and some rire. Sanskrit manuscripts. The ceremony at vinely the presentation was made vis in imposing and significant ritual—a symbolic demonstration of the fact that in recognition of his meritorious services in the promotion of their ancient learning and literature the Pandits had bestoved on the Munshi



The Lite Namab Sir Stad Hassan All Khan Bahadu Cell

the high dignity of custodian of their sacred books—an honour hitherto reserved almost exclusively for princes of the blood royal. Munshi Madho Lal shows his descent from the soldierly branch of the Nagar Brahmans, known as the Sepahi Nagars, by his bearing as well as his character. He has the bluff direct manner of the born soldier and he wastes few arguments on

the perverse. He does not wait to unrivel Gorban Lnots he cuts them. These characteristics have stood him in good stead in directing the various public movements at Benares.

Nivab Sir SVM HASSN MI When Pahadur, Gott Die Niwab of Murshedabad The princely house of Murshedabad has been, sace the early days of the

Ingh-h in Bengal. in close allunce with the British Pover The co operation of Meer Julie, in the mid chteenth century, dered Chics vis to victory, and rendered easier the subjection of the great province of Bengal to the swit of the Honourable Last India Company The conventonw ththe Prince, who then held the title of \nwab \izim of Bengal, ficilitated the substitution of the British for the Mahamedan power in this province The family of the Princes of Murshedabad claims des cent from the most remote antiquityeven from Abraham -in unbroken line, extending OVEL more than 4000 The immevears diate ancestors of the present house of Murshedabad came into India with the irruption of the Mogul con-

querors of the country. Their line was of the purest Araban blood, and the members of the line had had a distinguished history among the followers of the Prophet during the Araban domination of Western Asia prior to the conquest of India The house traces its descent from Abraham, through the distinguished strain of Mahomed the Prophet The present Nawab, Wasif Ali

istrator of the vast estates of his principality, and an earnest man of public affairs, in which he has shown a broad and liberal disposition He is now in the prime of life, with, in the ordinary course, many with in the ordinary course, many years of usefulness before him During the recent period of unrest in Bengal, he issued a Proclamation, dated 17th May 1907, and used his influence on the side of order and good feeling and his efforts to pie good reeling and mis chorts to proserve cordial relations between the Mahomedans and H ndus were crowned with the success they de His eldest son and hear, Murshedzada Waies Ali Meerza, was born on the 14th November, 1901 NATH

MANMATHA MITRA, Rai Bahadur, a prominent zemindar of Bengal, grandson of Raja Digambar and son of Grish The Kumar had Change and the Kumar nad the misfortune to lose his father Chandra Mitra by an accident when he was still an infant, and his grandfather died The young Kumar, with his brother, was brought up by Babu Mahendranath shortly Bose, an e. Sub Judge, and cousin of the late Raja Mahendranath of the late Raja discharged the Babu faithfully duties of his executorship, and under his management the family estates prospered and increased in value during the minority of the Kumars Kumar Manmatha Nath was educated at the Hindu School, and his education was of a practical business nature, calculated to fit him for the management of the large estates which would come to him on attainment of his majority modern landholder, in order to hold his own, has to be acquimted with many things not necessary for many things ordinary life, and, gentlemen in ordinary life, and, accordingly, the Kumar set himself to acquire a knowledge of law, and placed himself for a time under the tuition of a lawyer acquired a good knowledge of prac acquired a food kind meering, and tical surveying and engineering, and in order that his familiarity with the English language might be extended a European tutor attended to his edu cation at home, out of school hours He consequently attained profi ciency in the acquirements necessary for his position and responsibilities, and mevery department of his zemindary work he has proved the thoroughness of his early education

Kumar Manmatha Nath, on attaining his majority, carly took a part in public questions As a The found himself bound to join the agitation in protest against the Age of Consent Act, in conjunc tion with Raja Binaya Krishna of Sovi Bizit and the late Mahiral Kumar Neelkrishma Since then he has taken part in nearly every public His views are very catholic and he does not confine movement himself to questions which affect only his own class of landholders

Though of aristocratic birth, the Kumni mives freely with the middle classes of Bengal, on terms of equality, and shares and aids He is a member their aspirations



Kumar M N Mitta

of the Indian Association, as well as of the Bengal Landholders, Associa tion, and is in the camp of the people as well as in that of his brother zemindars He also devotes much time and energy to social movements and is connected with many public bodies Prominent among these is the Kayastha Sava, a social body which has for its object the religious, moral and social advancement of the several branches of the Kayastha community For this Society the Kumar has done good service and, as one of its Honorary Secretaries, in Bengal as one of its rionolary its welfare Kumar Manmatha Nath has like wise interested himself in the cruse

of Ait, and the Indian Samal, an institution established for the cultivation of music and the encouragement of musical and dramatic talent, owes not a little to his efforts The Sangit Sama also helps in the work of drawing different classes together and bring ing the austocracy of Bengal into touch with the great middle class of Bengal society, and in this direct on the Kumar has also afforded material aid to the Society. result has been the introduction of a social system somewhat akin to that to be found in Clubs, a system that was unknown to its Bengah members previous to the maugura members previous to the mangarding free Society tion of the Society many well-known Bengah dramas, and its members performed "Reza" on its stage in performed head of the famine stricken people of Eastern Bengal, and were able to remit the sum of Rs 1,546 to the distressed people as a result To the Sangit Samaj was also due the great demonstration held on the Calcutta maidan on the occasion of the death of the late Queen-Empress of India in 1902, and the Kumar was one of its most prominent organisers

Kumai Minmatha Nath has also rendered some service to the Govern ment, and on one occasion he was my ted by the Member of Mr Hare, CIE, then Member of the Board of Revenue, to express his opinions on certain questions in connection with the proposal made for the establishment of an institu tor the establishment of an institution for the education of the sons of Bengal Zemindars
Originated with Raja Sashi Shekar eshwar, Rai Bahadui, of Tahirpui, and the Kumar supported the pro posal in a lengthy and able letter, pointing out the advantages which would accive from the movement, and embodying much valuable rdvice on the details of the scheme The Kumar has also devoted

much time and money to chari table objects He made a splen did gift to the Hindu Orphanage, of which he is one of the Vice Presidents, and he has also afforded substantial help to the Calcutta Deaf and Dumb School, and many other charitable and philanthropic institutions of Bengal Being a patriotic Bengal, he has in recent years devoted much time to the agitation against the partition of Ben

escape, for a portion of the build ing, immediately behind where he was sitting, collapsed completely, and he was extricated from the ruins with difficulty The palace was repaired at considerable ex It is one of the largest buildings in Bengal and contains many pictures of great interest and value, among them a portrait of William IV, presented by the

King himself to the Nawab Nazim The day Nawab lived on till that the year 1906, when an attack of pneu monia and fever proved fatal on the morning of Christ mas Day, and he passed away quietly at the age of 60, after a life of great usefulness and dg nity His extensive broad charities, readisympathies, ness to help the poor and to succour the distressed, his liberal hospitality and de votion to the public good, and his loyalty Government, were features in a career which won him the admiration and respect of all His funeral was the most imposing cere mony ever held in Murshedabad, and the procession of whichmourners, was the largest ever seen, included Ma homedans Chris tians, Hindus and Jains of all grades, to whom his large liberality $_{
m minded}$

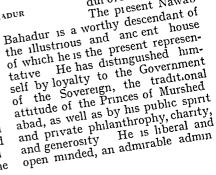
His embalmed body was deposited had endeared him temporarily in the family burial ground at Jafargan], for subsequent removal to Kerbela in Arabia

Nawab WASIF ALI NEERZA Khan Bahadur, of Murshedabad, eldest son of the late Nawab Sir Syad Hassan Alı Khan Bahadur, GCIE, of Murshedabad, was born on the

7th January 1875 At the early age to England for his education, in charge of Mr Coles, Principal of the Docton College He was educated it Sherbourne, Rugby, and Tr mty College, Oxford, and on the complet on of his College course he made a tour, in the course of which he visited the chief places of importance in England He also travelled extensively on the Conti

received the greater honour of appointment is a member of the Bengal Legislative Council In the sume year he was selected by the Vicerov of India 25 one of the not ibles to represent Bengil at the Coronation ceremonies of the King Emperor in London On his return to India after the Coionition, he ittended the Delhi Coronation Dur bar held on 1st January 1903 as a guest of the Govern-

ment of Bengal Hewasrenominated as a member of the Bengal Legislative Council in 1905, and again in 1907. On the death of his father, the late Sir Syad Hassan Ali Khan Bahadur in 1906, he succeeded to the "Musnud" of Murshedabad, and the hereditary titles of Nanah Bahadur of Murshe dabad and Amirul Umra her ted the whole of the \izamut State properties and the settled under the agreeıncome under the and and ment of 1891, and the succeeded to rank and dgnity of Premer Noble of the three proof Bengal, Behar and Orissa, vinces under the style and title of Ihtesham Ras ud ul Mulk, Ameer ul Daula, Ameer ul Omra, Nawab Asef Kudr Syad Wasif All Meerza Khan Bahadur, Mahabut Jung, Nawab Bahadur of Murshedabad The present Nawab

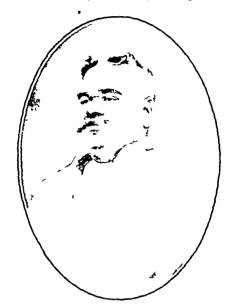




The Hon'ble YAWAB WASIF ALI MCERZY KHAN BAHADUR nent of Europe, and did not return

to India till 1895 On his return his father, the late Nawab, initiated him into the administration of the affairs of the Nizamut and invested him with full powers. He shortly afterwards entered public life, show ing interest in the affairs of internal administration He was appointed Chairman of the Murshedabad Muni cipality in 1899, and in 1901 he tration of Warren Hastings There he distinguished himself by his fidelity to Government

In 1795 he purchased the large estate of Rajah Durbijot Singh of



Rai CHUNDRA NATH MITTRA

Powi, in the District of Gaya, and at a later period acquired other properties in the Districts of Gaya, Shahabad, Azimabad and Lohardaga

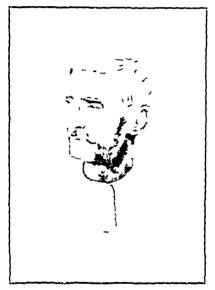
He obtained the title of "Ru" from Nazir al Mulk, Nawab Nazim of Bengal, in recognition of distinguished services. The title was a hereditary one attached to the estate and the Sanad, to which a Punja, or finger seal, of the Nawab was affixed, was long pr served by his sons Nilmoni Mittra and Pran Kissen Mittra

After the death of Rai Ram Sunder Mittra his two sons Rai Nilmoni Mittra and Rai Pran Kissen Mittra, inherited his large estate and followed the example of their father in maintaining charitable institutions

The present administrators are cousins and sons respectively of Rai Sham Lal Mittra and Rai Mohun Lal Mittra. They are useful members of the community and participate actively in public affairs

The late Babu HARI HAR MOOKERJEE was born in 1834, and was a member of the well known

Mookenee family of Uttarpara He had the missortune to lose his parents while still a child, and was brought up by his grandfather, Babu Jago Mohan Mookerjee, who was famous for his charities. The immediate charge of young Har. Har was taken by his uncle. Babu lov Kissen Mookerice This gentleman put his rephew under the tutorial care of the late Captain D L Richardson, of the Calcutta Handu College Babu Har, Har did little to distinguish himself as a scholar, but showed a stealing disposition At the age of fourteen, his studies were discontinued and he was placed n charge, by his mode, of his father's port on of the large family estate He did well in the management and



The lite Bibn HARI HAI MOOKIRJII

succeeded in improving the property Bibu Hair Hai was the foremost imong the z mindars of the Hooghly District, who, in conjunction with the Government officials, brought about the accomplishment of the Rajapur drainage scheme, a work which does equal credit to the zemindars and the Government. As one of the great zemindars of Bengal, Babu Hair Hair had the privilege of keeping fifteen a med retainers about his person. He was for years an honorary magistrate of the Seram pore Sub division and an active member of the Rajapur Drainage Committee, on which he served with

zeal and discretion. He was also a Commissioner of the Uttarpara Babu Hari Har was Municipality a good landlord, and his relations with his ten ints were never strained His tact and gentleness of disposition, Comb ned with unfaling kindness, were effectual in preserving a good feeling with his tenantry. He at taned a reputation as a man of serenc temper and cool judgment He had a leaning toward, the arts and scences, which showed itself in the establishment and furnishing of his palatial residence, the laying out of its grounds and gardens, and in the interest he took in medical science and its professors. He was of a religious bent, and had great plans for the permanent investment of certain sums of money for the observance of religious rates which however, he dd not live to see car ned out. He passed away in the sixtieth verr of his age. It is stated that the events of his life showed a remarkable correspondence with the pied ct ons of the astronomers, made at his birth, and cast in the form of a horoscope

Babu INOT KUMAR MOOKER
IEE, Zemindal of Uttarpara near
Scrampole in the District of



Babu Jaot Kumar Mookerjee

Hooghly, Bengal, is the son of the late Babu Hari Hu Mookerjee, and a member of a distinguished family gal, and has identified himself with the Swadeshi cause, in which he has worked with the practical object of improving Bengali manufacturing industries He has not, however, allowed his sympathy with the people to waste itself in purch political agitation, but has been ac tive in the endersour to imeliorite the conditions under which the cularly forward in organizing relief poorer classes exist for the population of Beng il during the recent famine of 1906, and placed himself at the head of the movement manguated in Calcutta to raise subscriptions in fid of the Tistern Bengal Famine Relie Fund of which he was appointed freismer The Kumu in former years took great interest in Calcutta municipal affaus and was twice returned as Commissioner for Ward \0, 4 He, however, was one of the "twenty eight" who resigned 75.2 protest against the speech of the lite Sir Alexander Mickenzie, formerly Lieutenant Governor of Bengal In recognition of his public services, the Government of India bestowed on him the title of "Rai Bahadur,"

Kumar NARENDRA NATH MITRA, brother of Kumar Manın 1897



Kumar N N MITRA

matha Nath Mitra, Rai Bahadur, received his education at the Hindu School, and he also had the advan-

tage of a private European tutor with whom he carried out his home studies. He required the many accomplishments necessiry to 1 gentleman of his position and be came a sound practical man of affairs and joined his brother, majority Manmatha ath in the management of the incestral estate Kumar A irei dra Nath is possessed of in excellent disposition which h is endeared him to rich and poor Thic The character have been furreaching and have been bestoved hever in education the pleasure of on worthy objects his life is to assist carnest but needs students to obtain knowledge. the path of learning he has helped and is still helping very miny of his youthful countrying n, and he has borne the expenses of several who have desired to complete their ago, he took in active part in the studies in England movement set on foot by Mrs Besant for establishing a Hindu College it Culcutti In common with his brother, Kumar Manin itha Nath, Kumar Jarendra Nath cherishes 7 pious feeling for the memory of his grandfather and endeavours to follow in his footsteps in the matter of the charities set on foot by their ancestor properties have been set apart by the brothers for the munterance In memory of their father, the brothers have established a charitable dispensary of these institutions known as the Grish Chandra Mitra's Charitable Aushadhalaya than a hundred patients are here treated every morning under the superintendence of 2 salaried Kavi-This is the first Ayurvedic Dispensary of its kind A quarterly n eeting of the most noted Kavirajes in Calcutta directs the affairs of the Dispensary The brothers have also largely helped to establish the Jhamapukar Library, and the Kon-

nagar School has been assisted by them with four scholarships Rai BEPIN BEHARY MITTRA, Rai PROMOTHA NATH MITTRA, and Rai CHUNDRA NATH MIT-TRA are lineal descendants of the Mittra family of Baraset, an old and respected Kayastha family in Bengal The origin of the family can be traced as fai back as the

reign of Rapa Adistir in Bengal With arinda Ghosh Disarith Bo e Kali Dis Mittri vete conspicuous members



IN BURN BEHAN MITTEN and they founded the several Kulin Kurstha families of Bengal The real founder of the pre-ent simily was Dewan Ram Sunder Mittra, who took service under the



Ru PROMOTHI NATH MITTEL

Honourable East India Company in the Commissariat Department at Barrackpore during the adminisat Cossimbari in the divs of its opulence, and by dint of energy and perseverance established himself as a successful merchant

Kanta Babu foresaw the rise of the British power in Bengal, and associated himself with it to financial advantage. His ability attract ed the notice of Warren Hastings and he entered the East India Company's service as writer.

He subsequently rendered signal service to his patron and became his banian. When the latter returned from England in 1772 Kanta

Babu was appointed his confidential secretary and acted in that capacity throughout the whole of his stay in India

Kanta Babu married several times and it was by his last wife Kshudu moni that he had oncissue. After Mr Hastings' retirement in 1785 kanta Babu retuined to Cossimbazar. He died soon after the great Governor-General's retirement.

Maharaja Lokenath Bahadur, the only son of Dewan Krishna Kanta, give promise of a bull hant career. He was the subject, however of a hopeless (malady and died in 1804, leaving an infant son Kumai Harinath

The estate then come under the management of the Court of Wards Harmath attained his majority in 1820. In recognition of acts of public utility, Lord Amherst, the then Gov

ernor General of India, conferred upon him, in 1825, the title of Raja Bahadur He was an accom plished Persian scholar and able accountant, and under his pationage Sanskrit learning flourished at Cossimbazar The establishment of several chatuspatis (Oriental schools) associated with such names as those of the famous Pundit Krishna Nath and others, bore eloquent testimony to the warm interest taken by the young Raja in the culture of the classical language of the East

Harmath had by his wife, Rance Harasundari, who is still living, a son, Kristonath, and a daughter Govinda Sundari

Kristonath was a minor when in 1832 his father, Raja Hill-nath Bahadur died, and the estate was for the second time administered by the Court of Wilds Raja Hainath gave Koomar Kristonath in excellent education Digambar Mitter an exstudent of the Hindu College, who was serving under Mi Russell at Mursh dabad, taught him Eng-



Maharaja Manindra Chandra Nanda

hish and he studied Persian with his father

Kristonath assumed charge of his Estate in 1840, and appointed his former tutor, Babu Digambar Mitter, his Manager In a freak of generosity he gave him a handsome honorarium of a lakh of rupees

In 1841 Kumar Kristonath ob tained the title of Raja Bahadur from Lord Auckland

On his accession to the guddi, he gave himself up to pursuits of pleasure

Kristonath was an enthusiastic advocate of education. He died in 1844, leaving a widow and two daughters

Immediately after his death, the East India Company, by virtue of his will took possession of the whole estate

The estate was literally in an insolvent and disorganised condition when the widowed Ranee got possession of it. Her administration, however proved successful and in recognition of her mentorious public services, I ord Wayo

bestowed upon her the title of Maharani in 1871 when her Dewan Rajib Lochan was made Rai Bahadur Four veris later, in 1875, the Maharani received a voluntary pledge from the Government to confer on her heir the title of Maharana

On the 14th of August 1878, the Commissioner Wi Peacock deputed by His Honor the Lieutenant Governor, held a Durbut to decorate the Mahuran with the Insignia of the Imperial Order of the Crown of India and to present her with the Royal Letters Patent

After the death of the Dewan the management passed to a Committee of six gentlemen selected from among the responsible and highly placed officials of the Ray, and this arrangement continued for about eight years, when Babu (afterwards Ray Bahadur) Srinath Pal, the nephew of the Maharan, was ap

Pointed Manager to the Estate
The Maharam died at the age of 70

The estate then reverted to Ranee Hala Sundan, the widow of Harinath, but she relinquished her title in favour of the next reversioner, Manindra Chandia, her grand child by her deceased daughter, Govinda Sundari

Manindra was boin in Calcutta in the year 1860 in the house built by his late father at Shambazar The ancestors of Manindra Chandra lived at Mathrune where his father Nobin Chandra was born. He

Babu Jyot Kumar has mixed much in public of Kulin Brahmans life, and has devoted himself mainly to social pursuits and the management of hs zem ndar es, in which he has atta ned a reputation for mildness and benevolence, Mi midness and penevoience and F W Duke, 1C5, late Collector F W Duke, at present Commis of Howrah, at Division, was sloped to regard him as it one of closed to regard him as it one of pleased to regard him as "one of the greatest zem ndars of the dis ti ct, and also as one of the most exemplary. He is widely known and greatly respected among the gentry of Bengal, and he upholds the soc al prestige which his family Empress have gained, by frequent entertain ments on a sumptuous scale, to which hs large circle of friends which his large circle of triends are invited. He is well known to the officials, and has filled with ciedit the honorary appointments of Member of the District Board of Heaghly. of Hooghly, Honorary Member and Municipal Commiss onei He follows in the footsteps of his father in the encouragement he holds out to doctors and kavitaje3 He W1s a member of the Uttarpara Dispen sary, and his benevolent disposition is shown by the large donations he has made to the Victoria Memorial Fund, the District Charitable Fund and the Famine Fund of Calcutta He has been an active member of the Rajapui Dramage Committee, and has contributed a sum ex ceeding two lakhs of rupees, for the benefit of his ryots He is a patron of art and an excellent mateur photographer He has a unateur procustaprier Mookerjee, on, Badu Sanat Kumar Mookerjee, who is married to the grand laughter of Raja Ram Hetam Chuckerbutty Bahadur, of danghtere He has other issue danghtere pore He has other issue, daughters, who are all well married in Kuln families Babu Jyot Kumai is of the old school of Bengalis and his personal habits are marked by ther simplicity

Mr CHARU CHANDRA MUL-LICK is the head of the Puttal danga family of that name, and a well known zemindar The family are noted for the r probity and well known zemindar charity, and in the latter direction they have contributed very large sums of money, and have a fund for the education of boys They also subscribe liberally to the Hindu Widow Fund

Charu Chandra is descended from better Purander Bose Mullick rumance Dose manner Khan, the known is Purinder among the founder of Kulmism iounder of Runnism among the Kayasthas of Bengal Magistrate Honorary Bresidency Sealdah, and of both Calcutta and Sealdah, and served as a Municipal Commissioner for n ne years, during wh ch period he was thrice elected. He is member of several associations and was for some time Vice President of the British India Association He played con Association in the great maidan, demonstration on the occasion of the death of the late Queen-As a Freemason he He 15 7/50 a holds high rank



prominent member of the Indian Sangit Samaj Association though a Theosophist, he is a though a the literal sense, and the hidu rites

The Late Babu COONJO
BEHARY MULLICK Few aristocratic families in Calcutta can claim greater antiquity and respectclaim greater antiquity and respects ability than that of the illustrious Beer Nursing Mullick, alsas Beeru Mullick, from whom the late Babu Cooper Behary Mullick claimed Coonjo Behary Mullick claimed descent He was a land-holder of great repute and culture, and belonged to the old school of thinkers He received his education at the Oriental Seminary, and made good

use of his advantages and wealth in aiding all deserving charities of his His palatial residence in Durmahatta Street was the refuge



of all the needy and poor, and the maxim which always guided him in distributing his charity was "Let not the left hand know what the right hand doeth", His private the right hand doeth on the right hand doeth on the right hand doeth on the right hand her doesn't have the right had her doesn't life was praise orthy and his devotion to his mother was a notable feature of his domestic life He never sought for recognition, either from the State or the public, for the many charitable works with which he was identified He died on the 4th October, 1899

Dewan KRISHNA KANTA NANDY, popularly known as Kanta Babu, was the founder of the Kanta Babu, was the founder of the Cossimbazar Raj family His great-grandfather emigrated from the village of Silna in Burdwan in quest of fortune and settled at Street in the immediate manner. Sripore in the immediate vicinity of Cossimbazar, where the East of Company then had a silk India Company then had a silk factory Cossimbazar which is factory but a mouldoned had a now but a mouldering heap of now hallowed by the memory of its former opulence, was once full of life, the activity of com-The place rose into impor tance as an inland port by the development of its silk trade The great grandfather of Krishna Kanta came to seek his fortune

nunity as heads of the clan, and to this day their descendants stand high in the general classification

among the community

We touch more solid ground when we come to Harekrishna Singha, who was the first member of the family to settle at Kandi, in the district of Murshedabad, where he commenced his career as a banker, and later on operated extensively in silk During the Mahratta incursions, Harekrishna migrated to Boalia, a village on the eastern bank of the Bhagirathi River He subsequently purchased this village together with others by presenting 'Nazarana'' to the Nawab of

Jurshedabad, and Boalia still forms part of the estate of the Kandi Rai family Harekrishna, with his whole family, became a convert to Vaisnabism His son, Muralidhar Sinha, was, like his father, a banker and merchant and he had three sons, Narayanchandra Gaurangasunder, and Beharilal Of these the second was the most celebrated He became an officer of the Bangadhikari acquired vast wealth, and was granted mahals, taluks and lakhiraj lands He is said to have obtained a Sanad in perpetuity at Kandı from Shah Alam II, Emperor of Delhi, for the purpose of endowing the shrine of Thakur Sri Sri Radhaballavjiu Having no issue he adopted his nephew Radhakanta, the second son of his brother Beharilal as his heir Radhakanta Sinha, when he succeeded his adoptive father, continued in employment under the Bangadhıkarıs, and amassed vast wealth on his own account Later on he came into considerable prominence in those stirring times, when Clive was fighting for the supremacy of the British in Bengal Radhakanta was a high revenue officer under Alı Verdi Khan and Sıraj-ud-Daula Nawabs of Bengal, and when the British obtained the Dewani of the Subas Bengal, Behar, and Orissa from the Emperor Shah Alam II of Delhi, he rendered great service to the former by placing at their disposal the necessary settlement and collection papers Radhakanta did not remain long in the Nizamut, for Siraj-ud-Daula, who was then at the height of his power, suspected him of communicating with the British, and he fled to Nuddea,

where a conspiracy against Sirajud-Daula was then in progress divulged to the emissaries of Clive the state of the feeling that existed among the officers of the army of Siraj-ud-Daula, and the results of the Battle of Plassey showed that the information supplied was correct When the Nawab Mir Jafar was installed on the throne, Radhakanta was appointed by Clive to manage the affiars of the Revenue Department and was later appointed Dewan or Kanungo under Clive He also attained other honours and He was an orthodox rewards Hindu, and considerably enriched the shrines at Kandi He appointed third and fourth brothers. Radhacharan and Gangagobinda, to the management of his religious endowments Of the first-named there is little to be said but Gangagobinda appears to have been a man of note, and he took a leading part in the politics of his day He began his career as a Kanungo under Mahomed Reza Khan, and his untiring energy and acute judgment in revenue matters attracted the attention of Warren Hastings, the future Governor-General, who was at the time an employe of the East India Company at their silkfactory at Cossimbazar When, in 1772, Warren Hastings became Governor of Bengal he appointed Gangagobinda his public Dewan but in 1775, Hastings being then Governor-General and the anti-Hastings Party being powerful, the latter were instrumental in procuring the removal of Gangagobinda from this post When, however, the following year Hastings and his party regained the upper hand, Gangagobinda was reinstated in his former position

It was shortly after this that the system known as the "Double Government" was abolished, the reorganization of the Judicial and Revenue departments undertaken, and properly constituted Civil and Criminal Courts established throughout Bengal, and in all this, Mr Hastings derived valuable assistance from the experience and fiscal knowledge of Gangagobinda, specially in his new assessment of zemindaries and taluks in Bengal for the purposes of revenue Mr Hastings later abolished the Provincial Councils, and appointed Gangagobinda as

Dewan of the Committee of Revenue while his son, Prankrishna, was made Naib Dewan of the Committee Advancement followed advancement, and Gangagobinda Sinha enjoyed the entire confidence of Hastings, being frequently employed on delicate missions requiring tact and judgment Eventually he was sent to Dinajpur to administer the zemindary during the minority of the young Raja, whose guardian he became As a reward for these services he claimed from the Government a large portion of the Dinajpur Raj, and his claim was strongly supported by Hastings in the Council The claim was, however disallowed and the favours shown to Gangagobinda by the Governor-General subsequently furnished various strong points of vantage in Burke's impeachment of Warren Hastings, to the State papers in connexion with which those desirous of pursuing the subject further are referred Gangagobinda Sinha was zealous in the promotion of the Hindu religion, and he performed the Sraddha or funeral ceremony of his mother with immense pomp, and at a cost of twenty lakhs of rupees In addition to the funeral obsequies of his mother Gangagobinda performed two other ceremonies with great display in fact, it is stated that their like has never been witnessed in Bengal The first was the Annaprasan of his grandson, Krishnachandra, better known as Lala Babu on which occasion invitation cards to pundits were engraved on gold leaves, the second was the Puran or chanting of the sacred Purans at his house in Belur Gangagobinda also built four splendid temples at Ramchandrapur He was a staunch advocate of Sanskrit learning, and encouraged the Pundits of Nuddea, contributing largely to their support, and to that of their disciples, repairing their houses and providing them with food and raiment His last days were devoted to acts of charity He left an only son, Pran-krishna Sinha, who inherited the bulk of his father's wealth Prankrishna also inherited the property of his uncle, Radhakanta, who being childless had adopted him as his heir So that in Prankrishna was vested the main portion of the family wealth. In his early years

succeeded to the estates of his aunt and removed to Murshedabadat the age of 38

After his accession to the guddi, Manindra was called upon to complete the Water Works at Beiliam



The life Manaraj Kimar

pore which his aunt had left un finished This scheme cost the Raj about two lakhs and-a half In his zeal for the cause of education he gave an undertaking to the Government of Bengal to con tinue maintaining the Berhampore Kushnath College at an increased charge of about twenty two thou sand a year On the 30th May 1898, the Government, in fulfilment of its pledge to the late Mahaiani, confirmed Manindra as Maharaja of Cossimbazar At a Durbar at Belvedere H H the Lieutenant-Governor presented him with the Sanad and Khilat and eulogised his predecessor, the late Maharani Surnomoyee

The Maharaja is an active worker, he has served on the Municipal Board of Berhampore as its Chairman, and takes the k enest interest in the affairs of the Municipality

He represented the British Indian Association in the Bengal Legisla tive Council, and was recently elect ed a Vice President of the All India Victoria Memorial Committee, formed under the auspices of His Excellency the Viceroy

His family now consists of one son and two daughters. The late Maharaj Kumai gradu ited in the Cibratti University in 1905 and was preparing for the Degree He died on the 26th Much 1907, at Gobardhan a holy place in the District of Muttri, on a pilgrimige with his father During his short but remarkable circer he had greatly distinguished himself by h - mint sided private and public virtues and his untimely ceith was deeply deplored throughout Bengal The and Mahmaj Kumar Kirti Chindi i



Kumar Srish Chindry Nindy

born on the 18th May 1895, died on the 28th October 1903. The youngest Maharaj Kumar Siish Chandra was born on the 11th October 1897, and though not yet in his teens gives promise of a good career.

The KANDI AND PAIKPARA Raj Family Noteworthy among the ancient aristocracy of Bengal is the Kandi and Paikpara Raj family, now generally known in the Province as "Lala Babu's family,"

which belongs to the "Utter Rardhi" cliss of Kayisthas, and can trace its orien biel to its founder Anadibir Sinhi, settled in Bene il in the rean of Adisur King of Gaur, in the 9th century. The earlier records of the family ire somewhat obscure and there is held of continuity over a considerable period following the settlement of the founder in Bene il as a feudal chief under King Adisur Anadibir Sinha was an emigrant from the North West Provinces and he and his family evidently prospered in the province of their adop-

tion for it is recorded that Rana Madan Singh v ho vas the fifth in descent from the founder maintained regular troops and screed as a nassal to the Hindu king of Bengal occurs here another heatus in the family history until ve come to Raja I aks Sinha midhar eighth in descent tho tas styled a Karan-Guru or Lord Guide of the Uttar Rardhi com and vas munity noted for his vealth, and chari piety table deeds His son was the famous Vias Sinha one of the ministers of King Ballala, who suffered a martyr's death in the cause of his faith Twelfth ın descent was Raja Binayak Sinha, who was an extensive

land-holder and zemindar under the Slave Kings of Delhi Next in this fragmentary historical record comes Raja Laksmidhar II He was famous for his charity and piety, and, with his son, rendered considerable service to the Mohammedan rulers in the internal administration of the empire Two brothers, Rajas Jidabhara and Pravakara, were sixteenth in descent and on account of their extreme devotion to religion they were proclaimed by the Kayastha (Uttar Rardhi) com-

age to Gobardhan insisted upon making her obeisance to so pious a man, he was trodden upon by one of her horses, and he died from the injuries then sustained son, Sri Narayan Sinha, being a minor, the Board of Revenue took over the management of the estate Of Sri Narayan there is little to be recorded He died at an early age, leaving two widows but no issue, and by his will he gave permission to the widows to adopt, according to the provisions of the Hindu law, while by virtue of the same vill. his mother, Rani Katyayani was to manage the vast property The Rani, who appears to have been a remarkable woman, not only managed the estates with ability but added to them very materially It was in her time that the Paikpara Rajbati was constructed and the celebrated Thakurban of Sri Sri Gopaljiu at Cossipore was established by her Proper endowments were made and the Thakurbarr stands as a tribute to her memory to this day, and is one of the family residences, pleasantly situated on the banks of the river It was at the instance of the Rani too, that the two widows of Sri Narayan, Tara sundarı and Karunamoyı, adopted the second and third sons of the Rani's brother, as their respective sons, under the names of Pratap Chandra and Iswara Chandra When these adopted sons reached their majority the management of the estate was made over to them by the Rani, who, for the remainder of her life, devoted herself to acts of benevolence Her charities were very extensive, and among other notable acts she celebrated, at the family house at Belur, the Anna Meru and the Tuladan ceremonies, at which immense stocks of provisions and other necessaries were laid in for the entertainment of the numer-At the first named ous guests festival, pecuniary presents were bestowed upon the pundits of Benares, Navadwipa, Dravida, and other celebrated Samajes, and money was freely distributed to the Brahmins and the needy, at a total cost of five lakhs of rupees At the Tuladan ceremons the Rani had herself weighed against gold, and the amount realised was distributed amongst the Brahmins

She dedicated a large estate to her spiritual guide, and made suitable endowments for the maintenance of the Dev Sheba and the Charity House therewith connected, and after devoting about sixteen lakhs of rupees to various religious and charitable purposes, she passed away at a ripe old age

The career of Pratap Chandra was marked by many instances of the benevolence so characteristic of the family He contributed largely towards the erection of the Medical College Fever Hospital, and to the fund for promoting the re-marriage Educational of Hindu widows and other institutions might always rely on him for support. In 1859 he established an Anglo-Sanskrit High School at Kandi and a High English School at Paikpara On behalf of female education he was a strenuous and bold advocate, and he supported the female schools estab lished in his time by the late Pundit Iswarchandra Vidyasagar public associations and institutions of the Metropolis commanded his active co-operation, and there was scarcely a movement intended for a public purpose that did not receive his support It is, however with the British Indian Association that the name of Pratap Chandra is in separably connected He was one of the founders of the Association and it was at his house that the inaugural meetings were held subscribed Rs 3,000 per annum to its funds, and was appointed its Senior Vice-President in 1861 the revival of the Hindu drama both Pratap Chandra and his brother Iswara Chandra took the lead, and it was due to their efforts that the first amateur Hindu theatre was established at their well-known villa at Belgachia at which the initial performance was given in 1858, in the presence of Sir Frederick Halli day then Lieutenant-Governor of Bengal, the Judges of the Supreme Court and many other officials During his lifetime the estate v as again materially increased and the Belgachia Villa was purchased by him from the trustees of Di arka nath Tagore The estate hovever, was involved in a considerable amount of litigation on which a great deal of money vas spent In April, 1854, the title of Raja Bahadur was conferred on Pratap Chandra by Lord Dalhousie. The Investiture vas held at Government House, Calcutta, and the Sanad which was in Persian, was couched in terms that showed the appreciation by the Government of the services rendered by Pratap Chandra as a public-spirited cutizen. The Raja died in 1866, at the age of 39 leaving a vidov and four sons. On his death, the estate passed under the management of the Court of Wards, and remained in its charge until 1879.

Isvara Chandra Sinha the younger brother of Raja Pratap Chandra, devoted himself largely to scientific pursuits and to the study of medicine He founded a charitable dispensity at the Paik para Rajbati, where he dispensed medicines to the poor with his own hands, and otherwise relieved their necessities At the same time he was a keen sportsman and main tained a racing stable. He was also an influential member of the British Indian Association and was for several years its Honorary Secretary He died in 1861, leaving an only son, Kumar Indra Chandra Singha, and a daughter The two brothers had rendered faithful service to the Government in the Mutiny of 1857 Jews was conveyed to the Rajas from their zemindary at Bhuluya that the native regiment stationed there had mutinied, and was about to loot the Treasury The Rajas at once ordered the collection of all the able-bodied men on the estate for the protection of the Treasury and the treasure was safely removed to the Rajas' well-built Kutchery-house, which was held in force by the Collector and the Rajas' men These measures had the effect of quieting the neighbour ing districts v here the efforts of the Rajas to ally the videspread panic were successful For the purpose of guarding the road from Calcutta to Barrackpore, they employed in their service a number of European seamen

At the time of the visit to India of H R H the Prince of Wales (now H M the King-Emperor) the Paikpara Raj family vasrepresented by Kumar Girish Chandra Sinha the eldest son of Raja Pratap Chandra Sinha, Kumars Purna Chandra

Prankrishna had been taken by his where he father to Calcutta acquired a good knowledge of Persian and became a good business At the outset of his career he was employed under Government in the Settlement Office at Azımabad, and he subsequently became Naib Dewan under the He added very Government materially to the family estates, and is reputed to have been devoted to religious exercises, and to have maintained the worship at the various shrines which had been

endowed from time to time with portions of the family wealth Prankrishna died a brokenhearted man, owing to a disagreement with his son, Krishnachandra Sinha, some years previously, after which, father and son never again met

Krishnachandra Sinha, the famous Lala Babu, by whose name the family is now known, displayed from a very early age an intense devotion to study, and with the means at his command, he engaged the most emment teachers to coach him in Sanskrit Persian and Arabic Early in life, owing to the misunderstanding with his father, above alluded to, he resolved to leave his home and earn an independent livelihood His first start was made in Burdwan, where he secured the post of Sheris tadar, under Government Subsequently, in 1803, when the British took

possession of Orissa, he was appointed Dewan in charge of the settlement After the death of his father he resided chiefly in Calcutta, managing his extensive properties and studying Purans, for which purpose he always had about him a number of learned pundits He mixed but little in society and in later life he proceeded to Brindabun, with the avowed intention of becoming a recluse Before leaving home he made arrangements for the education of his only son, Sri Narayan, and the control and guidance of his household. The main object of his visit to Brindabun vas, however, the crection of a magnificent temple in honour of the god Krishnachandra Jiu, and for this purpose he took vith him the sum of 25 lakhs of rupees. The fame of his vealth soon spread abroad and excited the cupidity of the dacoits of the neighbourhood, who plundered his house and carried off three lakhs of rupees. Other misfortunes overtook him, and he became involved in political troubles, which provide material for an interesting



Kum u Birendra Chandra Sinha

chapter in the family history Suffice it to say that the arrest of Krishnachandra upon a chaige of conspiracy against the State was ordered by Sir Charles Metcalfe, who was at the time Resident at the Court at Delhi, with plenary powers as Commissioner to deal with all offences against the British Government. The charge was in connexion with a treaty, to prevent the signature of which by one of the Chiefs of Rajasthan, Krishnachandra was alleged to have intrigued. Krishnachandra, or as he

was called Lala Babu, was conducted to Delhi, but so strong was the feeling aroused that Sir Charles Metealfe, before bringing him to trial, was induced to make further enquiries into the character and antecedents of Krishnachandra, who, as a result was honourably requitted of the charges brought against him Further than this, Sir Charles Metealfe took Krishnachandra to the Court of the Emperor of Delhi where in full Durbar he presented him to His Majesty as one who, with his ancestors, had

rendered exceptional services to the Government in posts of the highest responsibility 1 month later Krishnachandra re turned to Brindabun, to the great joy of the inhabitants. His stay in Delhi had not been altogether profitless even although he declined the title of Maharaja which the Emperor vished to confer upon him while there he purchased an extensive zemindary, as well as nearly the whole of the villages in the district of Mathura which were famous as having been the venue where the great avatai, Krishna held his gambols and pursued his dalliances, as related in the sacred Purans The temple which Krishnachandra built at Brindabun is by far the most lofty of any of the sacred buildings in the United Provinces The Thakur Krishnachandra Jiu stands upon a marble pedestal inside

the principal temple, and is the best adorned idol in all Brindabun Having built the temples and endowed them with large estates, Krishnachandra repaired to the shrine of Gobardhan, in the district of Mathura and here he renounced all wordly cares, and became a Yogi It is said that after he had assumed the garb of a Sannyasi, he held no converse with his fellow-men, and so strict was his rule in this respect that it indirectly caused his death In his efforts to avoid the Maharani of Gwalior, who when on a pilgrim-

who has made a special study of astrology, palmistry and

Sanskrit philosophy

Kumar Birendra Chandra Sinha is the eldest son of Kumar Sarat Chandra and is the most promising scion of the family He was born in 1881 and was educated first at the Metropolitan Institution and subsequently by a private tutor He is a warm-hearted and philanthropic gentleman, with a liking for travel in which he has received every encouragement from his father, and a taste for photography horticulture, and the decorative As a scholar he has acquired a solid foundation in English literature and a fair knowledge of Sanskrit He is of active habits more inclined to action than to speech and is endowed with the virtues of thrift, patience and industry He finds recreation in motoring but in ill the various pursuits to which he is partial he is thorough Perhaps horticulture and landscape-gardening are his favourite occupations just at present, and in the latter direction he finds ample scope for the exercise of his talents in the grounds of the Belgachia Villa, to the improvement of which he devotes a good deal of his time Photography, too, is to him something more than a mere hobby In religious matters new of thought have forms attraction for the young Kumar, who is not narrow in his views his inquisitive mind inclining to a continual pursuit of knowledge Like many of his forefathers, he takes an active part in public affairs, he is a prominent member of the British Indian Association, and an Honorary Presidency Magistrate of the First Class His sympathies with suffering humanity are large and he collected funds, and made a handsome donation, towards the relief of those who suffered by the great earthquake in the kangra Valley in 1905 During the visit of T R H the Prince and Princess of Wales to Calcutta in 1906, he acted as a Page to His Royal Highness He has also been nominated as Committee member of various societies and institutions in connexion with the Government retiring nature of his father has aftorded him an early opportunity of looking after the affairs of his vast

estates, and he has thus acquired a fair knowledge of the intricacies of zemindary management. He possesses a good library which receives considerable additions every month.

The second son of Rumai Sarat Chandra Sinha was Rumar Jitendra Chandra who was born in 1885 and died twenty years later. He was educated at the Metropolitan Institution and read up to the matriculation standard. He was a youth of good promise, and his early demise was a severe blow to

his family

Kumar Satish Chandra Sinha is the eldest son of the late Raja Purna Chandra Sinha and was born in 1875 He was educated at the Metropolitan Institution but owing to the death of his father his academical career was brought to an early close and his studies were completed at home He devoted special attention to Literature Science and the Drama and it is mainly to his interest in the latter that the Indian Sangit Sama owes its present flourishing condi-The dramatic members of the Samai are elected from the Indian aristrociacy of Bengal The Kumar himself is gifted with dramatic genius of a high order and has dramatised for the stage of the Sangit-Samaj several works such as Bakım Chandra's Krishnakanta's Will, and Mrinalini Like his father he is of broad sympathies but his charities are for the most part of a private nature \[\Lambda large number of vidous orphans and schoolboys receive aid from hun and his purse is always open to really deserving cases. In his private life he is prudent just and honourable, and of a religious turn of mind Motoring, touring and photography are amongst his recreations

Kumar Sirish Chandra was the voungest son of Raja Purna Chandra. He was born in 1880 and received his education at the Metropolitan. Institution as a charitable and sympathetic man the Kumar gave promise of a useful career but he died at the age of twenty-two. He will be remembered by posterity for the munificent donation he made to the Kandi Charitable. Hospital which was founded by his adoptive father.

Kumar Girish Chandra

Kumar MANMATHA NATH ROY CHOWDHURY of Santosh belongs to one of the most ancient austociatic families in Bengal from which came Maharaja Pratapadity and Raja Basanta Roy of Jessore His ancestors migrated from Jessore and settled at Santosh in the beginning of the 17th Century The family is among one of the tichest Kayastha houses in the province During the time of the Moghul Emperois they exercised exclusive rights over their estates

Kumai Manmatha Nith who is only a young man, just stepping into manhood, has already made a reputation for himself. He main tains the Dwarkanath charitable hospital named after his late father, and the Bindubashim Girls' and H E Boys' Schools, numed ifter his mother. He also supports for the good of his tenantiv i large number of Middle English Schools and Middle Vernacular Schools as well as charitable dispensaries He recently inaugurated i well equipped college in his own sub-division Spacious and comfortable boarding houses have also been elected for the free accommodation of students. He manages these institutions himself as their Proprietor Secretary, and takes the keenest possible interest in the educational problem of his country as his pamphlets and letters to Lord Curzon on this subject show. The Kumar has given a building, at his own cost for the District Board Veterinary Hospital in the town of My mensingh

The Santosh family have also established, at considerable expense a *Dhaimshala* in the holy city of *I judy a*, and an *Itit Shala* at Santosh where foo I and shelter are dispensed free to pilgrims and travellers

Gifts of landed property have been made by the Santosh family from time to time, for religious en downents and charities, which yield an annual income of nearly twenty thousand rupees. Since the demise of his late lam nte lifther the Santosh estate have spant about five lakhs of rupees for public and charitable, purposes.

The Kumar is a benevolent and cultured member of Indian society. He bears an exemplary character and his private charities are unbounded

Sinha, Kanti Chandra Sinha and Strat Chandra Sinha his second third and fourth sons and Kumar Indra Chanda Singh the only son of Rairls are Chindre Sinhi Of the entert imment given in honour of the present king in the grounds of the Belgichia Villa of the Pukpuri I maly mention will be made further on. Of these tive represent itives of the family Grish Chandra hed in 1877 in the prime of his life He left a muniticent bequest of Rs 1 25 000 for the maintenance of a hospital at Kandi He vis a high minded gentlem in and singularly free from the pride of rank and position Purna Chindri vas a great traveller and visited most of the places of note in the country sacred places and shrines of India were objects of his special interest He was famous for his benevolence and was specially invited to attend the Proclamation Durbar at Delhi in 1877 In 1885 the title of Raft Bahadur was conferred upon him is a mark of personal distinction died in 1890 Kanti Chandra predeceased his brother Purna Chandri dying in 1880. He was a keen sports man and owned race horses. He left a widow but no issue and his estates were vested in his brothers Kumar Indra Chandra will be remembered by many of the present generation of Europeans in Cilcutta is one of the most courteous and kindly-hearted of the Indian gentlemen of hisday. He was a great patron of the furf owned a number of useful race-horses and presented a tup, the Palkpara Cup every year He was a great patron of Music and in Literature he made more than a fair reputation. He encouraged technical education and took an active part in the arrangements for the Calcutta Exhibition of 1884, and was largely instrumental in collecting the Indian exhibits for the same He was the pioneer among the orthodox Hindu commu nity in the contention that sea-voyages are not prohibited by the Hindu Shastras He convened an assembly of learned pundits and members of his clan of orthodox Hindus and expounded to them his views, urging that a doctrine of superstition was out of date and that it was folly on their part to oppose a movement pregnant with such vast possibilities The time

was not ripe hovever for his id vanced idea and his irruments fuled to convince the pundit and his claimen. They disented from his project, and his scheme for the time being tailed Kumar va preent it the Proclimation Durbar at Delham 1577 by special invitation and he tool a prominent part in the reception of Lord Kipon at the Belevelia Villajust previous to his departure from India from both moded and generous he was it preted by all classes of the community and comminded the regard of those with shom he was brought into a trad contact. In his later year follow ing the example of some of his in cestors he become an escetal and hard like a Sama is a issuming the title of Bodh mund in ith Somi He died in 1894, it the use of 37 leaving in only danchter who also died it meirk ize

The entertunment it the Bil grehic Villam 1875 to H. K. H. the Prince of Wiles (nov the King Imperor) vis an altogether voluntary move on the part of the Indian people of Bengal vaho subscribed cheerfully and sought to give expression to their joy it the ideent of their future I inperor by inviting His Royal Highness to a purely oriental entertunment. The grounds of the Villay crevell suited to the purpose for they comprise about 130 acres and are laid out with irristic taste. The place teems with historic issociations possesses a magnificent collection of oil-paintings representative of the art of Giovanni Dubuse Constable Guido Rein One Eastlike Cighiri Lttv and other misters of world-vide fime Some of these pictures vere pur chised from the collection of Raja Dwirkanith who secured them during his visit to Europe but the major portion of the collection was acquired by Rain Pratip Chandra from the most famous of the picture-gilleries of Europe. It is undoubtedly the finest private park in Bengal Since it came into the possession Paikpara family the property has been considerably enlarged and improved, and its present owner, Kumai Sarat Chandra Sinha has entirely re-modelled the beautiful grounds The garden was

the favourity resort of Fort Ance and Fort Henboroveth Fort Dishouse on Fort Canama and a for a long time remarkable as a place of me tra, for all per major distinction in I tale it.

Kumur Scrot header Sinha the murth on of Kill Prit p Chindre Sinha i to the for represent tative of the Hor n the titulic he whof the family He about 18, study a sometiment to the Metropolitin Institution and Himlu Shoot and after and at his e under able to where Since he too! oer the many one it of his estate considerable addition have been male to the property and a number of timils di putes chick had for been pendim have been satisfic torils ettled. The Lunir mean unction with others has started in is ociation from a is the Utter Rollin Karastha Sabha for the for ther ince of the interests education aid and process of members of his clin and he is unanimously reconmised as President of the Association As a stannel Hindu he has ilvais mantaned the traditions of his princely house by the celebration of relicious ceremonies, at Cossipore and it kinds. He is ilso in irdent tourist and has visited ilmost ill the famous and holy places in the country He has entertained the leading otherds of his time from Sir Rivers Thomson to Sir Andrey Fraser either at his town residence or at the Belgichii Villi and when the Chinese Plempotentiary Tang Saho Ye vis in Calcutta he accepted his hospitality it his Cossipore residence the Hickur-Bari. He takes much interest in engineering and photography. The improvements that have been carried out at the Cossipore Tharkur-Bari the Kandi Raibati and the Belgachia Villa are all from designs executed by himself and he has a fine collection of photographs of the mos famous places in India all of which were taken by himself. He ha contributed largely to charities public and private and gave a hand some donation towards the proposed Victoria Memorial Fund He is of a most affable disposition, a broad-minded gentleman with a love for things refined and beautiful and a leaning towards the mystical and occult He has for his Secretary Baboo Hari Mohan Baneriec.

has been favourably noticed by leading men and journals, and the Prince and Princess of Wales were also pleased to accept the dedication of the Kumar's memoir of the Royal, Vist to Calcutta The Kumar's son, Benoyendranath san exceedingly handsome and smart boy He is making striking progress with his governors and already speaks good English If he fulfils the promises of his boyhood he is destined to be a great man

The Honourable Maharaja

GIRIJA NATH ROY, of Dinappur, was born in 1860 and educated at Queen's College, Benates He took over the manage ment of his magnificent property and was invested with the title in 1883, in which year he attained his majority The Raj of Danajpur is of great ant quity, and dates back to the 14th Century It passed through many vicissitudes, in common with the rest of Bengal in mediæval and modein times, till, on the death of Maharaja Tarak Nath Roy in the year 1865 while the present Maha raja was still in his infancy the estate cime under the management of his adoptive mother Maharan Syam Mohin assisted by her son in law Khettar Mohan Sinha whose strvices singled him out for the bestown! of the title of Raji by the Government of Lord Lytton The title of Maharani conferred upon the present Maharaja's

mother, Syam Mohini, already locally called Maharani, was given for her great services during the distressing times of the famine of 1873.74, when her liberal assistance enabled the raivats of Dinajpur to tide over the crisis. Since attaining his majority, Maharaja Grija Nath. Roy. Bahadur has taken a very active part in the administration of the district. He was charman of the Dinajpur Municipality for six years, and is also a member of the District Board and an honor-

ary magistrate. As a member of the Legislative Council of the Lieutenant-Governor his services have been of value and have received the recognition of Government. His wide knowledge and tipe experience have enabled him to give useful aid to the authorities. He has always been foremost in forwarding public movements of the day, and has shown himself willing to assist in all measures for the welfare of the people with his purse, time, and labour. His public of the people with his purse, time, and labour.



Maharga Girija Nath Koy, of Dinapier

He has founded the Diamond Jubilee School, Weaving School and Sanskrit Tol, and also two charitable dispensaries. At the expens of the Maharaja's estate the Ghagra Canal and the Thomson Canal named after Sr River-Thomson, formerly Leutenant Governor of Bengal, were built at Dinajpur, and great benefit, by improved san tation, was thereby conferred on that town. The title of Maharaja Bahadur was conferred by sanad upon the Maha

raja in 1907 at a public Durbar it Dacca, when the Lieutenant Governor in presenting the similar spoke as follows, after giving full recognition to the Maharaja's character and services—" By your unswerving loyalty, high character, read ness to give your it me and libour to promote all useful public objects, you have guined the high esteem of your countrymen and the grateful recognition of the Government. It is very gratifying to me to be able to express by the ceremony of to day the satisfact on

with which the Government his viewed your cueer"

Raja SREF NATH. ROY Banker and Zemin dar of Dacca Eastern Bengal, was born in 1841 and comes of the vellknown Kundu family of Bhagy ikul in the District of Dacca The Kundu family have always been noted for their public beneficence and in the days before the British Administration of India were foremost in Eastern Bengal in their zeal for patronizing Sanskrit literature encouraging learned Hindu Pandits and celebrating Hindu religious rites. They also gained the name of public benefactors by their great services in relieving the poor during the famines which are of such frequent recurrence in India specially in the great famine that devastated the Province in the early part of the eighteenth century when by their generosity

thousands of lives were saved. For this act of munificence, the then ruling chief conferred on the head of the family at that time. Ram Govinda Kundu, the title. Roy'' as a family distinction, and also a grant of rent-free lands, the annual meome of which was Rs. 400. The head of the firm head of the firm head of the firm head of the present day. The descendants of the firm have continued all through the intervening time the charitable policy of their predecessors, and have

He is gifted ind unostentations with distinct tilents, and is considered to be a rising orator politican. The speech which he delivered at the Woodburn Memoand Moting presided over by H E In Curzon cherted prinse both from the Lurop in and the Indian communities. His essues and speeches which have been published in a big volume have been lighly spoken of by eminent men such a Lord Ripon Su Charles Phot, and Sir Walter Liverner He received his cult truming in

St Navier's College, and his University education it Hiic School and the Presidency College He reads extensively it home where he has a splendid library of his own His published writings show him to be an accomplished. and thoughtful writer He is a liberal but cautious social reformer, and his forcible appeal in support of the servoyage move ment created a good deal of sensation. The leading journals and public men of his province have pronounced him to be "in honour to the territorial nistociacs of Bengal one who combines in him the iristociacy of wealth with the austociacy of intellect " He has founded many useful associations and has been their guide His palatial residences at Santosh Calcutta and Chunar do credit to his esthetic taste. He is a fine rider and has beautiful elephants horses and His magnificent motor landaulet shows that he

is progressive in every respect. He is a strong advocate of technical education, and also of temperance, in support of which he has delivered speeches and written essays and pamphlets. It was he who first sent from Bengal a young man to Japan for technical education.

In recognition of his services he was appointed secretary to the Education Committee of the Bengal Lindholders' Association. He is also an influential member of the

governing body of the British Indian Association

Among his public fifts he had contributed Rs 50 000 toward the All India Victoria Memorial Lund, of which he is a vice patron and liberally contributed for the Coronation Drinking Lountain in the Zoological Gardens Calcutta.

As exemind a the Kumar exerv popular. During the enerty in 1901, he help d he detree ditentity and identification and identification to enable them to tube over their difficulties. Be ites he has divise



Kumai Manmatha Nath Roy Chowdings and his Sox

come forward with liberal donations whenever relief funds have been opened under Government supervision during famines. On his first tour round his estate he received right royal ovations and many appreciative valedictory addresses everywher. In some places the people subscribed for portraits of the Kumai and had them unveiled with great éclat. In recognition of his efforts for the public good he has been granted by the Government a

mest classes or most of horour and private intersect with their excellence. Load Curzo and Marto and each operant I to H. I. the Command on the following the twelfer a kinner received from the outcome Victor special copes of I's public had peckentoged out to public each of the accept of the photocrapt and auto capter contains. The kinner had the place are of extentional the following the Honour the Leute and Lade Leaver as he except at the factor of the control of th

partition of Bond here existed H H Self Hare and Parts of Linical and entertered them in a next road soft most of entertainment bond charmon he decorated with the works of art in two visited with the Hunch she Kumar held a Durbar where His Honour and parts were photographed with the Kumar held soft the Governor

The Kumar has proposed to commemorate this visit by adding a separate female ward to his Hospital to be named after Sir Lancelot Hate

His lovalty and devotion to the Government of his great King are unimperchable and he has helped the union and better understanding between the rulers and the ruled by many social functions and entertainments

The Kumar placed a prominent part in connection with the festivities

and receptions arringed in honour of the Royal visit to Calcutta in 1905 6. He was one of the few leading men who were on the deputation that received Their Royal Highnesses, as representatives of Bengal. He was also one of those seven dignitories of the Province of Eastern Bengal and Assam who were presented to Their Royal Highnesses. Their Royal Highnesses accepted a special copy of the Kumar's English translation of "Chandra Shekhar," a book that

present position of Messrs P G W Sawoo is due Woopendra Babu then returned to active business in the management of his firm In religion, Woopendra Babu is a



M: W N SAWOD

Hindu of the Vaishnab sect inaintains the worship the temple of Issur Radha Kanta Jew, established at Dhankurra, and has dedicated a large zemindan to the service of this institution. Among the other religious works he has opened a "Tol" at Dhankurra where many Brahmin youths are provided with residence and receive Sanskrit education His large art collections at his palatial residence at 26, Gailiffe Street, Caicutta, and at Dhankurria, bear testimony to his love of art He received Honour Certificates on the occasion of the late Queen Empress's Jubilee, on the Coronation of the present King Emperor He 1s now a member of the Bengal Smoke Nuisance Commission for Calcutta and Howiah

The Hon'ble Maharaja Sir RAM-ESHWARA SINGH Bahadur, KCIE, is the present head of the Raj Darbhunga house His bro ther, the late Maharaja Sir Laksh mishwara Singh Bahadur, GCIE was popularly known throughout The public services to the State, and the charity ren dered by the late Maharaja Baha

dur, have received public recognition from all classes of the community, and a handsome statue paid for by public subscription, has been elect ed in Calcutta to perpetuate his The present holder of the memory title is emulating the useful and patriotic career of his predecessors By caste he is a Brahmin, the head of the Mithila Brahmins, one of the ten great divisions into which the Brahmins are divided. He is the second son of Maharaja Maheshwar Singh Bahadui, and was boin on the 16th December 1859 At the

time of his father's death. on the 18th Oc tober 1860, he was barely a vear old

His brother, the late Maha 1aja Sir Lakshmishwaia Singh who was some thuty months his senior, succeeded to the guddi, but owing to the nonage of the brothers, the Court of Wards assumed the management of the estates, and arrangements were made by them for the education of the minor princes Maharaja Ram-Singh eshwara was educated with his elder brother at Darbhunga, Mozaf ferpur, and Benares He

acquired an early taste for learning, and displayed at school consider able ability At Benares he was the dux of his class and made rapid progress By twelve he had mastered all the subjects required for the entrance examination of the Calcutta University His age, how ever, prevented him from offering himself

In the higher branches of mathe matics, literature, and science, his studies have been extensive, and he is an especially good Sanskrit scho lar The European forms of athletics have always had an attraction for him He is a good horseman, and an expert at tennis and rackets

On the completion of his educa tion, he was offered an appoint ment in the Statutory Civil Sei vice, which he accepted from 1877 to 1885 served as Assistant Magistrate at Darbhunga, Saran and Bhagalpur The knowledge of the details of administration acquired during that period has stood him in good stead in the management of the estates of the Rai



H H MAHARAJA SIR RAMLSHWARA SINCH BAHADUR

There are few noblemen in India with a greater aptitude for business than the present Maharaja of Dar bhunga, and the secret of his success is largely due to the close personal supervision which he exercises, and to the energy and industry with which he applies himself to his duties

During the period of his service under Government he married, under a special agreement with his late brother, and obtained the maintenance grant of Perganna Bachaur in the District of Darbhunga The

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spent large sums of money in relieving famine and in public and private charity in general. They earned the thanks of Government some years ago by founding the present East Bengal Saraswat Somaj for promoting and encouraging Sanskrit literature, Hindu law, philosophy and astronomy by holding annual examinations and conferring titles on successful students. The present Raja, as prime mover in this matter, received a certificate of honour on the occasion of the assumption of the title of Empress of India by Her

Imperial Majesty the late Queen-Empress Victoria in 1877 Raja Sree Nath Roy has fully maintained the traditions of his family, and in addition, has identified himself actively with public affairs He received a good education in the Dacca and Presidency Colleges which has fitted him for the position as head of the family He has served as a Municipal Commissioner, and was formerly a member of the District Board, Education and Road Cess Committee, at Dacca He has also held the position of Honorary Magistrate on the General Benches at Dacca Munshiganj, Srinagar and on the Independent Bench of his own at Bhagyakul He is still a trustee of the Economic Museum, a life member of the Calcutta Zoological Gardens, and a life governor of the Mitford Hospital at Dacca In all these capacities he has worthily upheld his reputation and gained great credit Conjointly

with his brothers, Babu Janokee Nath Roy and Rai Sita Nath Roy Bahadur, he has established many useful public institu tions in East Bengal, including the Eye Infirmary at Dacca and the Sita Kundu Water Works at Chittagong to commemorate the name of his father, and a model bustee building for the poor at Calcutta The brothers own and carry on many mercantile and banking businesses in East Bengal, and also the important mercantile and bank ing firm in Calcutta established in the name of their father, the late

Prem Chand Roy They have also established a steamer service plying between Calcutta and Dacca They are known to Government as law-abiding, loyal, and peaceful zemindars and have received mention in successive Administration reports Raia Sree Nath is also a Director of the recently established Bengal National Bank, Limited In recognition of his loyalty and public spirit the title of "Raja" was bestowed upon him as a personal distinction on the 30th May 1891. He has a



Raja Spee Nath Roy

son, Kumar Promatha Nath Roy, born in the year 1880 and educated at the Presidency College, who now manages his whole estate The personal and family contributions to the public funds exceed six lakhs of rupees

WOOPENDRA NATH SAWOO, senior partner of the firm of Messrs P G W Sawoo, Jute Balers and Dealers, Calcutta, is the son of Patit Chandra Sawoo, merchant and zem indar He was born on the 16th January, 1859, at Dhankurria,

Basirhat, in Bengal, and was educated at the Free Church Institution, Calcutta, which he left at the age of twenty years, on the death of his father. He then placed the management of the jute firm under the sole control of his brother-in-law, Babu Shama Charan Ballay, and retired to Dhankurria to administer his ancestral property, which has been greatly extended since that time As a zemindar he proved most just and liberal in his dealings. His care for his native village extended to the opening of well lighted metalled roads, and he de-

voted great attention to the installation of excellent He established a High School, practically a free institution, with a hostel attached Young Woopendra gave all his spare time to the welfare of the school, and reaped his reward in the brilliant results achieved by its pupils at the public ex aminations He also opened a charitable dispensary, which he named after his mother, Sama Sundarı This is in charge of a qualified surgeon and is richly en dowed For the improve ment of the district he constructed the road known as the Dhankuiria and Arbalia Road and excavited many tanks upon his property For many years he sat on the Bench of Honorary Magistrates at Basilhat, and on the District and Local Boards In the famine of 1896, Woopendra Babu ren dered yeoman's service to his poorer countrymen He opened relief houses at Dhankurria, where over three

thousand sufferers were comfortably housed and fed for six months, by which time a good many were able to return to their homes. Those who were utterly destitute, however, numbering over a thousand, were supplied with the necessaries of life for a further six months. These princely charities are still remem bered in the district. In 1898 he sustained a severe loss by the death of his brother in law, Shama Charan Ballav, who had managed the jute firm in Calcutta so long and successfully. To this gentleman the

The Raia has proved a model zem He has introduced rules for ındaı zemindary management, which have proved so workable that they have been adopted by many of the leading zemindais of Bengal His offices are governed on the same system as those under the control of Government His servants enior official privileges, such as leave, pen sion rules, etc , and no officer receives punishment until the complaints against him have been fully investi gated The Raia Bahadur himself s one of the hardest working men in

his Rai He is an early nisei, getting through a couple of hours' work in the early morning Later, he attends his office regularly from II AM to 430 or 5 PM During the cold weather months the Raia Bahadui goes on tour in the There is not an institution either in his own district or in Calcutta, with which he is not connected He holds the posi tion of a First Class Magistrate, with summary jurisdiction, and has grined the good opinion of all by hs impaitial justice For six years he has acted as Honor ary City Magistrate of Lalbong, and is Chairman of the Murshedabad Muni cipality At one time the Raja Bahadui was a Member of the Bengal Legislative Council, and proved himself a very useful councillor He was married on the 4th May 1883, three years before attaining his majority He is a Hindu of the best type, and although moderate in his views, he

is orthodox in all social and religious observances. His charities have been very large. The British Government has a very loyal adherent in the Raja. He has a family of five sons and four daughters. The eldest son, Kumar Bhupendra Narayen Sinha, a very intelligent boy, is married to the younger daughter of Babu Braj Mohun Lall, of Gaya, his eldest daughter is the wife of the eldest son of Babu Isri Prosad, of Ullao

Raja Ranajit Sinha Bahadui comes of distinguished ancestry

The family originally came from the Deccap, where one of the Raia Bahadur's duect ancestors. Maha raja Tajawah, was the Ruling Chief of Bagagiam in the 14th century A D This Maharaja, leaving his brother, Raja Rawat, in charge of his possess ons set out on a pilgrimage to Kuiukhetra in the Umballa District, taking with him his son, Kumai Madan Singh party, after making the pilgumage, went to Panipat, whence the Kumar proceeded to Thind, with the per mission of his father The Kumar



Raja Ranajit Sinha Bahadur

distinguished himself at this place, and becoming very popular, decided to settle there. He married the daughter of one Lala Sham, a wealthy banker, with the consent of the Maharaja, his father. Here the Kumar made his home, refusing to return to his native Raj. He had many descendants, and of these, his great grandson, I ahomall Rao, had five sons who, leaving Jhind, settled in various countries. Owing to the loss of certain tamily papers, the reasons that induced the sons of Lahomall to leave their

country are not known We find the family, later, settled in favour with the Emperor of Delhi, Rai Sambu Nath, one of the present Raja Bahadur's ancestors, being appointed by that monarch Nazim of the whole tract of country from Saharanpur to Meerut, and permanent Subadar and Fouzdar The rainly distinguished themselves by their services Rai Badri Dass, brother of Rai Sambhu Nath, commanded a body of horsemen under the Eist India Company, and took part in the battle of Shamh under

Colonel Burn Rai Taia Chand, another ancestor, received high honours from the Mogul Emperor, Jehan gu, for his great services Raja Devi Sinha Bahadui, another ancestor of the present Raja Bahadur, was the founder of the Nashipur branch of the family In 1756 he came from Pani pat to Murshedabad, then the capital of Bengal, and entered the Honourable East India Company's service in the Revenue Department, in which he held high and responsible offices in connection with the Settlement of Bengal farmed the revenues of Purner, and, subsequently, of the districts of Rangpore. Dinappore and Edracpur In 1773, when Provincial Councils were formed, Raja Devi Sinha became steward or secretary to the Provincial Council of Mursheda bad and later on, the office of Dewan was conferred upon him He ren dered important services to Lord Clive at the battle of

Plassey, for which he was honoured by the title of Maharaja. He was succeeded by his nephew, Raja Udmunta Sinha Bahadur, who was well known for his liberality and charities. He established tem ples in all his mahals, and granted lands, from the profits of which Deb Seba was conducted. These grants are still maintained by the present Raja Bahadur. He granted Brah matter lands in every village to the Brahmins, and made large donations for the public good. He was a pious and religious man, and there

duties of management which devolved upon him in connection with this grant interfered with the discharge of his functions as a public servant and he tendered his resignation as Assistant Magistrate. He received the title of Raja Baha dur under sanad, dated the 29th May 1886, and was exempted from attendance in Civil Courts under Government notification of the 14th May 1888. From 1888 to 1890 he sat in the Bengal Legislative Council as the representative of the land owners of Bengal and Behar

On the death of Muharija Su Lakshmishwai Singh Bahadin, on the 16th December 1898, he succeeded to the gudde of Raj Darbhunga, and was personally invested by His Honour the Lieu tenant Governor of Bengal, on the 21st January 1800, at Dubhung 1, with the title of Mahai un Bahadui He received the Kriser i Hind Gold Medal on the 23rd May 1900 Since succession to the gudd. Maharaja Rameshwara Singh has been elected a Member of the Legislative Council of India by the members of the Bengal Legis lative Council, and has also filled the office of President of the Zemindan Panchayat, the British Indian Asso ciation, the Behai Landholders' Association, and the Bhairta Dharma Mahamandal

In the Legislative Council he has played the part of an active and patriotic member and his speech on the budget of 1800 gr was recognised as a masterly per formance The Maharaja is a man of simple tastes and uniffected habits He is fond of travel and has visited almost all the sacied places in India from Kamakhya in Assam, and the Western Himalayas. to Rameshwaiam in the extreme south of the Peninsula His High ness has given signal proofs of his liberality and large-hearted At his succession to the Raj, he made liberal presentations to his servants Among other benefic tions he set aside a lakh of rupees, the interest of which will be devoted to the relief of orphrns and widows upon his estates. To the Famine Relief Fund of the year 1900 he presented the munificent donation of a lakh and a half of supees as well as a lakh of supees to the Queen Victoria Memorial Fund He

also give thirty thousand rupees to the Mozafferpur Hospital, and twenty thousand towards repairs to the temples in Assam. Hand some contributions have also been made by him to the Transy all War Fund, and the funds organised for the rehef of sufferers by the floods in Bhag alpur and in Calcutte. His smaller gifts of charty are mnumerable, and all his allow ances in the Imperial Council were placed at the disposal of the Collector of Durbhunga for distribution among the respectable widows and orphans.

As a politican, he is shrewd and fursceing assiduous in the discharge of his public duties, and unspring in his labour. As a Zemindu he is considerate.

Babu DEVENDRA NARAYAN SINGIIA Zemindar is a great grindson of Ramin indo Ghosh, who, at the time when the Honour-



Babu D N SINCHA

able East India Company was consolidating its position in Bengal founded the estate of Sadarpur in Central Bengal Ramanando Ghosh was born in the district of Murshedabad, and entered the service of the Hon East India Companyatanearly age He served faithfully and with distinction in the several silk factories of the Company, and gained great favour

with his superior officers. He was held in much esteem by the Directors of the Company for the honesty and zeal which he displayed in the idvincement of their business. In recognition of these services he vias granted, from time to time consid crible sums of money as revards He rem inied in the Company's service till an advinced ige and died it his estate at Sadarpur Part of the great river of Northern India, the Ganges extending through the three districts of Rijshahye, Pabna and I aridpur, is included in the estate of Sadarpur

Rur $R1 \times III$ SINHI Bahadur, of Nishipur, son of the Lite Ripa Kirti Chandra Sinha Baha dur, was born on the oth June 1865 The estate via placed under the Court of Wards during his minor tv The young Rija received his educit on it the Berlimpur College, where he had a distinguished circu, pissing bill inth even in the lower class examinations Mathematics was his strong point, in this branch of study he made quick progress As a youth he was remarkable for his steady straightforward character and Hie Rui Bihadui did not succeed to the estate without a certain amount of troub'c On his attaining his major ty in the year 1886 a chim was raised on behalf of his aunt, and it first the Court of Wards was inclined to a division of the property Sir Charles Paul was engaged to represent the interests of the Rua before the Court of Words, he himself not being able to move as he was still a minor at the t me, but through the interven tion of Su Henry Cotton, then a Secretary to the Board of Revenue, the Court of Wards agreed to retain the estate under its control until the Rya Bahadui had had opportunity allowed him to establish his In the heavy latigation which followed, Raja Ranajit Sinha Bahadui was successful throughout, and was established as the sole proprietor of the Nashipur Raj This success was largely due to the Raja Bahadur's own acumen and legal knowledge for he took an active part in the conduct of his case, gaining the esteem of his own counsel whom he set right on certain points of procedure

of Bengal He was educated, first, at the Oriental Seminary and after wards at the Doveton College, Calcutta, where he acquired i thorough English training Being the inheritor of a princely fortune, Babu Cally Kissen did not pursue his studies with a view to entering any of the learned professions, but contented himself with a sound general education. He remained a diligent student all his life, and devoted much attention to books of travel Being a great lover of learning, he did his best to dissemin ate it among his countrymer The Indian Association for the Cultivation of Science during its early struggles found in him an carnest



The Life Babu CALLY KISSIN LACOLE

and generous patron He founded one of its chief laboratories (which bears his name) and so contributed to a work of incalculable benefit to his countrymen He was a generous patron of authors and students. helping the former in the publication of their works, and assisting the latter in completing their education, both in India and abroad He pos sessed in a marked degree the charitable tendencies of the Tagore family and distributed his bounties with out reservation, to all sects and creeds The Mayo \ itive Hospital, the Deaf and Dumb School, the Albert Victor Memorial Hospital, the Roman Catholic Orphanage, the District Charitable Society, the Bangiya Sahitya Parisad, and many

other phil inthropic and educational institutions of Calcutta, acceived substantial support from him. His charties, however, were not confined to his native city alone. He liberally contributed to the Anglo Bengali School and the Macdonnell Students' Boarding Institution it Allahabid, the I oper Asslum at Dehra Dun, the Central Hindu College at Bena res, the Charatable Hospital at Baris il, and many similar institu-tions in different parts of the country. To his friends and relations he was a remmonly generous, and the aggregate amount given by him towards various public purposes was not less than ten lakks of rupees Bibu Cilly Kissen had, however, other claims to public regard As a possessor of great landed prop city he idministered the same is a model landlord and was highly respected and loved by his tenants He did not put himself forward in public movements, but preferred the quiet of a retired life. In the litter part of his life, Babu Cally Kissen, who had done so much to allegate the sorrows of others, was himself heavily visited. He lost his two sons in their youth, and his wife, who was his worthy partner, soon followed them 1 inourite daughte, i grandson, a son in law and a daughter in law died in quick succession, and to complete his sufferings he was stricken with blindness. Worn out in health and spirit Babu Cally Kissen retired to Bennies the holy city of the Hindus There he died in 1905, in the 65th year of his age, leaving an only grandson, Steeman Profulla Nith Ligore who inherits his estate

The late Maharaja Bahadur Su TOTINDRA MOHAN LAGORE KCSI long held a position of influence in Bengal and Calcutta As a distinguished member of Indian society, a gentleman of high culture and a wealthy landowner he held confidence of the Government and the respect of all classes. He was born in 1831 educated at the Hindu College Calcutta, and at home under the guidance of the celebrated Captain D L Richardson and others He gave early proof of literary culture and taste by composing several Bengah dramas and farces, and by

issociating with men of learning and ibility He was a member, and, for several years honorary secretary, of the British Indian Association its president in 1879, and again in 1801 He began to attend public meetings and take a share in public iffurs early in life. In the Orissi famine of 1866 he co operated with Government in devising measures of relief in the Midnapore District In 1870 he was nominated a Member of the Bengal Legislative Council, and reappointed in 1872. In Feb. runy 1877 he was appointed an Additional Member of the Legisla tive Council of the Governor General. and in accognition of the valuable issistance rendered by him in the discussion of the provisions of the Civil ProcedureCode was reappoint ed in 1879. On the occasion of the Imperial Assemblage, in Junuary 1877, he was made a Mahuaja He was created (SI in 1879 and K (SI in May 1882, Bilindui in January 1890 and in January 1891 the title of Maharaja was made hereditary in the family His donations of money and land to charatable institutions and in ud of national and public move ments have been munificent. He give a likh of rupees in his mother's name, for the benefit of Hindu widows, effected a settlement of estates worth Rs 80,000 to endow the Mool igori temple at Shamnaga and the feeding of prupers at the Prasad gave donations to the District Charatable Society and the Mayo Hospital He founded scholar ships in the name of his father. Babu Hara Kumar Pagore, who died in 1858, and his uncle, Babu Prosanna Kumur Tigore, CSI, on whose death in 1866 he became head of the family the annually give a gold aimlet for proficiency in Sanskit literature, and a gold medal for the test examination in the Tagore Law Lectures, as well as another gold medal for proficiency in Physical Science He filled the following offices usefully and honourably, viz, those of a Justice of the Peace for the town of Calcutta, Presidency Magistrate, Fellow of the University of Calcutta, President of the Faculty of Arts, and Member ot the Syndicate, 1881 2, Trustee

was hardly any religious institution with which he was not connected The Present Raja Bahadur is in direct descent from these great men of older times, and is I worthy representative of their fame Des representation men who had so much



Kumu BHUPFNDRA NARATEN SINIIA

to do with the establishment of the Butish Government in India, the Raja Bahadur S loyalty is well founded The British Government has no more sincere friend than the subject of this sketch, Raji Ranijit

Sinha Bahadur MAHDI HASUN Khan, ahas Syed Badshah Nawab RAZVI MOHUMMUD Banker and Zemindar of Guzri, Patna City was born on 30th July ratna City was oorn on 30th H (18th Zilhija 1274 A H)
1858 (18th Zilhija 1274 He is a descendant of the illustrious General Syed Hassun, who origindeneral Syeu massum, who originally came to India with the army of Nadir Shah, the Persian con queror General Syed Hassum, at the express wish of the King of Delhi left his promising young son, Syed Razi in India with that Syed Kazı in mula with the son monarch Syed Murtaza, the son obtained honour of Syed Razi, of Dalby and the on Syed Razi, obtained monour under the King of Delhi, and the title of Khan Bahadur was best towed upon him Syed Abdullah, the next representative of the family was indifferent to titles, but his two sons Syed Mehdi Ali Khan and Syed Mohammed Ali Khan,

obtained advancement, and were honoured with the titles of Khin The fourth son of Sked Appending Sied Latt My Phan distinguished himself in the reign Buhadiii of her life Minesty Onech Victory Empress of India and was created the Order of the Indian Embine Luther pouoms were in store for him on the occusion of the Jubilee of the Queen-I mpress m 1887 when he was invested with the title of \m ip pi Ille Lecylones the Arceros Lord Dufterin futhful services rendered to the of Namin Services rendered to the contemporary of Linth Mr Khim is held in high respect in Beh it where his memory is honoured by his countrymen as the generous donor of a lakh and ten thousand impecs which and the foundation of the technicil institution now known is the Behn School of Engineering I portrut of this illustrious gentle, min now adorns the walls of the Engineering School Sir John been unveiled by the late School Sir John the Sir Woodburn then Lieutcuint-Gover-The subject of the present sketch, Sped Badshah nor of Bengal the present sketch, Spett Drush in Nawab Razal, generally known as a loval Nawab of Patral is a loval the Nawab of His Wajesty the King subject of His and is over the present the property of the Nawab of Talliand is over the Nawab of Talliand is over the Nawab of t Emberoi Equard / II and is even ready to render service to the Imperial Government On his mother's side he is a descend int of two illustrious fumilies. His Imperial Government mother, on the maternal side, came of the family of Haji Mohammad Ismail who had immigrated into India, was married to the daughter of the Navab of Bengal, and was subsequently martyred at Bussora while on his pilgrimage to Karballa Thus a link is formed with the famous ancestor Mullah Amad Mozindarai On the father's side Mozindarai On the father's side she was the granddaughter of Syed Ali Khan Bahadur, who was the grandson of Syed Abdullah the grandson Syed Radebah Novah Cabab Rozzi Sahib Razvi Syed Badshah Nawab Razvi is the proprietor of extensive zemindaries in the Patna and metal proprietor of extensive Patna and presented proprietor of extensive Patna and presented proprietor of extensive Patna and presented proprietor of rupees Proprietor of Patna and a quarter of rupees By his wealth

education,

charits have been continuous and on a handsome scale. In the interest of his Vussulman co religionists the Naw ib his appointed a permanent stuff with issistants for the proper and decent interment of the remains of my of his co-religionists whose or any or any not be table to perform the ceremont it their own cost It is his present intention to make a permanent endowment of landed property to the value of Rs 12 000 bet minim is a memorial the resenue to be expended for religious purposes and for the help of widows orphins and others, ho ire helpless and needy among his co-religionists At the Della Coronation Durbar



Sun Badshin Ami KIVII OF PITTI

the Nawab was the guest of Govern-Tor some time he was Vice-Chairman of the Patn's Municipality pality and an Honorary Magistrate His services are still at the disposal ris services are still at the disposal of the Municipality and Patha District Board

Babu (ALL) KISSEN
TAGORE was up to the time of his death in 1905, the head of one of the distinguished Bengah family of the distinguished Bengan family the "Tagoles," well known for their wealth, culture, public spirit their wealth, Culture, Paber Cally Record laboralists their wealth, childre, public Spirit and liberality Babu Cally Kissen Babu Cally Rissen the son of Babu Gopal was the son of Babu Gopal and position he is well-fitted to serve both the Government and his country His interest in public Was the son well known zemindar Lall Tagore, a well known zemindar affairs has always been keen, and his subscriptions in the cause of medical service, and

Migistrate Calcutta member of the Asian Society of Bergal served for six years is a Commissioner of the Corporation of Calcutta represented the Caty of Calcutta at the Corona 100 of Kirg Fdward VII. Kinghted by H. R. H. the Prince of W. less 1006 R creations must photography and motoring. Lattice Light Castle, C. Lewis Club British Indian Association Calcutta.

SHYAMA KUMAK Kumar TAGORI was form in 1882. He is the son of Right or Sourcedia Mohun Lagore Kt C11 Mus Doc (Oxon) idestingu shed music in who esubstint ilservees in the cause of Ind in music have met with recognition in virtous torms a the hands of the rules, power, and have also attracted ittent on and recount on amorlaterary and scentage societies in all quarters of the exted world. The Kum u s school education was supplemented by home studies in dethe able direction of Mr. P. I. Puckland The distinguished personalty of his fither seemed to the Kumar recognition, in the shape of sutograph letters of correctulaton, from several crowned heads of I more and As a, on the occasion of h s marrace marsos Among these

were the German Imperor the Imperor of Austria the Kings of Sweden Belgium and Sam and the Shah of Pers a Heaceaved, as presents on this occasion a signed pho-



Kom at Shvaya Kuyat, Tacora

to riph and in enumelled to exister bowl from the King of Sim and a railand of must from the Ruler of Nepal. The Shah of Persia bestowed on him the tile of New do!

In 1896, the Shah of Perstappointed him to the honority office of Vice Consul for Person at Calcutta, an office which he was the first Hindu to hold. He was promoted in 1899. to the higher office of Vice Consul-General, and in 1900 he was appoint. ed Ici Agent for Pers v. The Shah il-o conferred upon him the honour of a Knighthood of the Imperal Order of the I on and the Sun of Pers v. The Kum u takes after his fither in his mused studies, of which he is pass on itely fond. He is a practed muse in and in author He is also a student of more practical matters and, at the request of the Pers in Government he has written a bool on lea Being a ned Hindu, He has futher, he devotes his besure to the study and ch a lation of the H adu religion, in its ispects of Ved inta (Monothe sm) and I mit i Sisti i (which do ils with the God head in the form of Primal Incurs). He is the author of a book "Kontu China Mata Raha sya, a lantue compilation for the sect of worsh pixes known as Virichius Helis undertaken the complition of a work named 'Silta Dasin' or the Philo ophy of the Silts form of Relgion. The Kum ii is a corresponding member of the International Society, I intric Order, of America

~ 26 18 25 m

of the Indian Museum (President in 1852), Governo, of the Mayo Hospital and a member of the Asiatic Society of Bengal He

The late Michael gar Bahadur Sir Jotis pro Monas Tacope Kosa

presented to the Calcutta Univer sity the maible bust of his uncle, which has been placed in the portico of the Senate House Jointly with his brother, the Raja Šu Sourindia Mohan Tagore, CIE, he presented to the Municipality of Culcutta a piece of land for a square (to be named after his father), in which he placed a marble bust of his father, he also gave another piece of land for the Mayo Hospital He is succeeded by his adopted son (Raja Sourindra Mohan's son) Maharai Kumar Sir Prodyot Kumai Tagore, kt The large estates are situated in several districts of Bengal, chiefly in Rang pur, Fandpur, Purnea, Muishedabad, and the 24 Pergannas In Calcutta he built two fine houses, "The Prasad" and "Tagore Castle" adorned with costly specimens of art where the late Maharaja entertained with princely hospitality. He received for life the income of the vast estate

his own and countrymen alike It was said of him that he combined the polished po liteness of the old school, with the educational accomplish ments of the new, more com pletely than any other man of his time By selecting him as a member of va rious special committees, such as the Education Commission of 1882, and Jury Commission of 1893, etc., Gov ernment showed apprecia

left by his uncle, Prosinna Kumur Ligore, and was able to make large additions to his share of the paternal property. The Ligores

> there's held t leiding position in Bengal, but the late Mahariji Bahadur Su Johndra more than any member other of the finily combined public offices with personal stitus Strictly ortho dox and devoted to religious ob serv mees he never dis regarded the claims of society, civilization and culture, and gained the good will and esteem Europeans

of Calcutta have

tion of his ability and character Costly litigation tool place in connection with the interpretation of th will of his uncle, Babu Prosanna Kumar Lagore The Prixy Council finally decided that the Maharaja had only a life estate under the will, and that after his demise, the estate would go to his cousin, Babu Gaynendra Mohan Lagore, or his representatives

Mihirija Sir PRODYOI KUMAR I MORE at boin on 17th September 1873, only son ind hear of Mihiriji Bahadur Sir Jotindri Mohin Tagore, qo, mirred I idy Sporoji Bila Figore Educated at the Hindu School Calcutti, and afterwards under private tutor, Mr F Peacock, Barrister at-Liw, grandson of Sir Barnes Pacock Chief Julice of Bengil Hon Secretary British Indian Association, Trustee, Indian Museum, Fellow of the Royal Photographic Society of Great British, Hon Presidency



Michaely Su Product Kimar Tacorr, kt
From Painting by G P Jacomb Hood K I

saw, before his death on the 18th August 1905 its realization logendra Chandra Basu was born on the 31st December, 1835, in Ilsara, a village in the Burdwan District, which was the home of his maternal grandfither, while his meestral house was situate in Berngram en the banks of the Damoda longed to the Kayastha community He be

Meer matriculating from the Hooghly Collegiate School, Jokendra Chindra entered the Hooghly College But the promis of a successful uni versity circer had no charms for him, and his ambition led him into the Paths of Journalism He Joined the stafi of the Sadharani, and served his apprenticeship under Babu Akshov Kumar Sirear whose name to day is a household word in Bengal

Next he came to Calcutt 1 and strated the Bengalee weekly, banga base The success of the pure with phenomenal It created a re volution in Bengalee Journ dism, imparted to it force and vigour, and vigour, and in a manner quickened its atrophied veins, with the blood of Western Journalism It was the recognised organ of the orthodox Hindu com munity and even in far off Madris civilians, like Mr Lilly, spote, of it 35 the most influential and the most widely circulated of Beng ile orthodox section of the Hindu com munity was made manifest when on the introduction of the Age of Consent Bill in the Imperial Lekis lative Council, numbers responded to its call, and a united voice of protest went up 15 unst the proposed Act It was during the abitation against this Bill that the Bangabasee Sedition Case cropped up Jogendra Chandra was prosecuted on a charge of publishing seditions articles in the Bangabasee tact of the then Chief Justice, the But, thanks to the case was satisfactorily settled

Jogendra Chandra started a daily paper in Bengalee, but had to aban don it after ten years. He also started a Hindi edition of the Bangabasee, and this Journal in the Imgua Franca of India 15 the

most popular of its kind His next work was the publication of the evening Paper, the I clegraph,

the charpest evening paper in this country The paper was very popu lar But the time is not yet for the success of a pice paper published in

English, and the journal has now after Jogendia Chandra's death been converted into a weekly

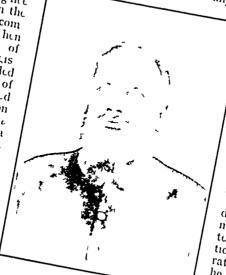
He published almost ill the old religious works of the Hindus in the onkinal Sinskrit, as well as in Hindi and Beng dee And he have writed in dving fime by lendering these works popular, and bringing them within the reach of all He also reprinted the m isterpieces of old Beng the authors

Jogendry Chandry himself was in nuthor of no mean repute The Rajalaksmi the Model Bhagni and other sketches of society are in the hands of the Beng dee reading public who appreciat them

His business capacity was great The huge publishing business went on smoothly under his guid mee

He was very popular in his own village, in which he made consider ible improvements by establishing schools 1 Post office and 1 by 111 He als) constructed an embankment and exertated several tanks He was a man of many virtues as well as of many inventions

Mr. KALI PODO BOST, BA, Pleader, District Courts, Meetut, was born it Sirlkot in the Punjab



 M_{t} K P BOST

India, in the year 1858, and received his education principally at the Canning College, Lucknow, where he obtained his BA Degree in 1877 For about three years he was Professor in the Canning College,

Lucknow, and the Muir Central College it Allahabad In 1882, he "as appointed Assist int to Colonel Sir George Chesney, then Secretary to the Government of India, Military Department, for a short period, and afterwards went to Mlahah id ind studied accounts under Mr Simkinson, Accountant-General of the United Provinces He next took up law, m 1885, and practised at the District Courts Meeting Soon after his armal Government Pleader and Public he was appointed Prosecutor which appointment he Prosecutor which appointment he held only for a year, his private practice browing up a apidly and his reputation spreading quickly in all neighbouring districts Possessing, of the I nglish, Sanskrit Urdu and Persian languages his chief am in life has been to promote education unong his countrymen. He founded the Anglo Vernacular School in the the angio vernacular penool in the Meitut Cantonments, and also laid the foundation of the Meetut College He 15 Honor iry Secretary of the Livill Library and Reading Room, Jown Hall, Meerut, which he himself founded and is also a Trustee of the property left by \ mak Chand who set aside ill his property, worth 40 Inc. for educational and charitable purposes He has been Piesi dent of the District Caste Committee In connection with the Lyall Library, he do started the Jubilee Club (in the lown Hall) which admits all clisses is members, its object being to break down the social bainers of the several communities and weld them into one homogeneous whole His quict efforts have been con tinuous to improve and cherpen means of travelling by 10 ids, canals, ind rulway, and to make the con ditions of life more cast for the masses of the people. In postal and telegraph matters, his representa tions to Government for cheaper rates have already borne fruit, and he is working for the adoption of pic fares He is very popular among his bre then of the Bu, has often led the Bai Association, and has founded the Law Chambers Company at Meet ut, of which he is Managing Duector For his public services he was awarded a seat in the Delhi Coronation Durbn of 1903, and also a Certificate in the name of the King



Dr [M N BANERJEE, B \ M R C S, L S A (I ond) was born at Subarnaporc, Nuddea District, Bengal At the age of ten after passing the vernacular scholarship examination from the village school, he came to Calcutta to complete his education, for which purpose he attended the Hare School Presidency College, and St Xavier's College From the last named in-



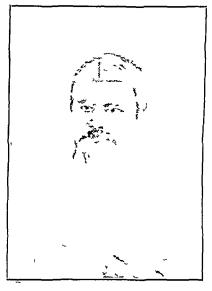
Dt M N BWFRJFF

stitution he graduated in 1877, and accepted the appointment of Lecturer on Chemistry at the Cathedral Mission College. At the same time he continued to attend lectures at the Medical College. During this period he assisted his brother, Pindit Jogendranath Vidyabhushan in editing 'Arvadarana' a wellknown Bengali periodical. He was the author of many articles in that

Journal In the year 1880 Dr Banerjee visited England for the purpose of completing his medical education, and studied at King's College, London, under Lord Lister, Sn George Johnson, and other eminent professors In 1882 he obtained his medical diplomas and accepted the appointment of Resident Medical Officer at the Royal Free Hospital, where he practised for three years in touch with the best medical men He also acted as Secretary to the Indian Society, and was associated with the Indian community in London in the presentation of a birthday address to Mr Gladstone, a reception to Lord Ripon on his return from India a memorial to Mr Fawcett, and in other political and social affairs of He returned to Calcutta and commenced practice in 1886, building up a large connection within a short period During the prevalence of plague he was very active in affording medical aid to sufferers He never refused his services, and often risked his own life in performing operations on plague patients. He was attacked with plague after one of these operations, but recovered after a hard struggle An official communication, dated September 18th, 1899, makes special mention of the services which he had "on numerous occasions rendered to Government and to the Medical Officers of the Corporation in connection with the outbreak of plague," and Sir John Woodburn "expressed his sense of the excellent work done and the valuable aid rendered, and conveyed an expression of his hearty appreciation of them "Dr Baneriee has been Lecturer on Medicine and a Physician at the Albert Victor

Hospital for many years Some of the beds of the hospital are endowed by him and his patients. He in duced one of his patients lately to pay more than Rs 50,000 for the extension of the hospital. Dr. Banerjee also takes great interest, and is always ready with his help, in the education and social improvement of the rural population of his part of the country.

The late JOGENDRA CHANDRA BASU The career of the late Babu Jogendra Chandra Basu affords an

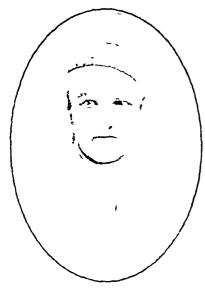


The Lite JOETNOR'S CHANDRA BASE

instance of the success of a persist ent policy, followed with almost religious devotion. It was the dieam of his life to make Bengali journal ism up to date in every respect, and he was fortunate, inasmuch as he

His fither is Mr. Omesh Chunder Dutt, Honorary Presidency Mags trate. His great grandfather the late Mr Russomov Dutt was the first Indian Judge to be appointed to the Calcutta Court of Small Causes formerly known is the Court of Requests, and his grandfather Mr Koylas Chunder Dutt was the first Ind in Collector of Calcutta. The family are distanguished in the present is in the past. The Indian poetess foru. Dass was his consin and Mi Romesh Churder Dutt, late of th Indian Cx 1 Service and until recently Farance Manister to H. H. the Grekwar of Baroda as also a cousin of his Mr Jogen Chunder Dutt is an Honorary Presidency Magistrate for Calcutta and a Fellow of the Calcutta University

Mr SHAMU DHONI DUIT, Sol citor sensor member of the firm of Shamul Dutt & Gupta is the son of the late Kali Charn Dutt Zemindar. He vas born at Calcutt i in the vear 1843 and educated at the Hindu College and at the Presidency College His first articles were to Mr. W. F.



Mr. SHAMUL DHOSE DUTT

Gillanders, but subsequently these were transferred to Babu Roma Nauth I aw, of the firm of Swinhoe and Law. Mr Dutt duly passed his examination in the year 1870 and was carolled in December of the same year. As he had passed before

his turn, he had to endure a wait of six months before being enrolled Mr. Dutt's abilities speedily brought him in business when he commenced to practise on his own account, and for some years he conducted single handed his growing practice but later he took mito partnership Mr. Nalm Chandra Gupta v ho had been his uticled clerk. The firm ifter Mr. Gupta semolment became Dutt and Gupt i under which title it is still curried on and has become very prominent in legal circles Mr. Dutt takes an interest in public iffins and in all matters appertuning to the vell-being of his country men

Dr (HARLES ARTHUR TUILLE, MB (Lond) MRCS (Eng)

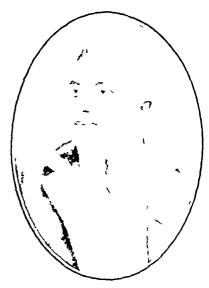


Dr. C. A. LUITER

IRCP (Lond), Compose (Surgeon Captum, United Provinces Light Horse), was born in Plymouth Devonshire, in the vear 1868, and acceived his education at the Layistock Grammar School From there he went to St. Many's Hospital where he qualified, obtaining the diplomas of MRCS (Eng.), and IRCP (Lond.), in 1892, and in the following year the degree of MB (Lond.) At St. Mary's he held the posts of House Physician to Sir William Broadbent, and House Anæsthetist. He was in Assist into Demonstrator of Physiology in the Medical School. He came to India.

in 1803 as Medical Officer to the Campore Pactories which post he still holds. He is a member of the British Medical Association and Surgeon Captain in the United Provinces Light Hoise

Mi KAIKHOSRU ADURJEE GHASWALLA PA, Bartister at law, Poona Bombar Presidency comes of the well-known Parsee lands of that name settled in the capital of the Decean for the last sixty cars. He was born at Poona in the year 1860. His early education was received at St. Vincent's School and the Poona Native

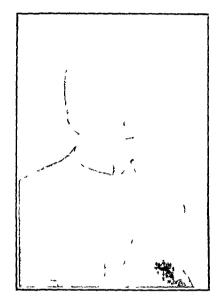


Mr. K. A. GHASWALLA

Institution, and to complete his course he was placed under the Jesuit Fathers at St Xaviers College, Bombay Having pursued his studies so far in India, Mi Ghas walls then proceeded to England for the purpose of studying Liw He entered it I incoln's Inn and in due course was called to the Bar, after which he placed himself under Mr P B Abraham, a well known I ondon lawyer, and obtained value able experience under him. In the course of the six years, during which he remained in England, Mr Ghas walla acquired a valuable profession al training in I aw and practice in the various legal departments In the year 1806 he decided to return to India Airring here he chose Rangoon as the scene of his first professional practice, and accord

Emperor, under the signiture of Sit Junes Digges In Touche Inte Lieuten int Covernor of the United Provinces

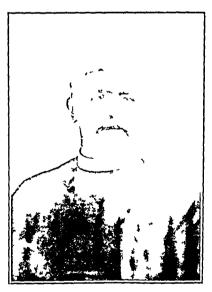
Sn WALIER MALION COIVIN, Bur-ut-I w Allahabad is the youngest son of the late



SIR W. M. COLVIN

Hon'ble Mr J R Colvin Bengul Civil Service Lieutenant Governor North-Western Provinces v ho died in the Fort of Agra on the 9th September 1857 during the Indian Mutiny Sir Wilter Colvin visborn at Moulmein Tenasserim Burma, on the 13th September 1847 He proceeded home for his education and was educated at Monsieur Maclean's School, Lake of Geneva, Windlesham House Brighton, and afterwards at Rugby and Trinity Hall Cambridge where he was a Scholar and LLB He was called to the Bar at the Middle Temple in January 1871, and proceeding to India was enrolled as an Advocate of the Allahabad High Court, where he has practised ever since, having enjoyed a leading practice In 1892 he was appointed by the Local Government to be a Member of the North-West Provinces Legislative Council, and subsequently was elected a representative of the Allahabad University He served on the Council for five years, till 1897 When Lord Curzon appointed a Police Commission to enquire into the Police administration. Sir Walter Colvin via appointed to crive thereon is a Luropean non-official member in which expects he served for mine month. On the completion of this important crivio he was on the 1st Luriury teop. In litted by the King. Sir Walter Colvin, has been a 1-Hz, of the Allahabril. University mee, the year 1802.

Di PIPIN KRISHNA (OO MAK the younger on of the late Bolunthi Nith Coon ir born in the funds residenbelor in the District of Ho rich in November 1850 After matrix Liting he entered the Medeal College in 1868. On successfully pass ing the final examination of his collere he vas admitted into the Government service is House Surgeon to the Medeal College Hosptd m 1875 Heremened on the capacity for over two years after which he resuned and tool to private practice and saice then



Dr B K Coown

has been practising successfully in Cilcutta. Both as a physician and a surgeon, he is widely known to his professional brethien for his practical sagacity and keen insight. He was an Honorary Migistrate, and a Municipal Commissioner of the Bally Municipality for several years, and is a life member of the Indian.

A next or for the Cultistion of Seems found d by the Lee Dr. Mohandre I dl Steer who br err hove the brile de him Helbebother the lite Kult to ten i sure h t hin in It I of the Uniter th et falutta and take in the for h to to our real by the Constraint that he had a few Sale by H. ofter Foth Pracly hardman is applied a the fud Court & Hu ld Hi con n N M Con ar I II n appointment in the Sulvalente Printee Site of mile Government of Ben d

Mr JOHN (MINDER DELL Mr., nr. Attorney "Liv, Cal cutter a born a Calcutte on 1892 and climated at the President



Mr J C DUTT

College affiliated to the University of Calcutta where he gained the degrees of Master of Arts and Bachelor of Law In the examination for the former degree he stood first of his year in English from the Presidency College and was awarded the University gold medal and puze In 1892 he was admitted as an Attorney of the High Court of Judicature at Fort William in Bengal having gained the first place in the Attorneys' Final Examination Mr Jogen Chunder Dutt comes from the well known Christian family of the Dutts of Rambagan in Calcutta

appointment In 1882, he went to Lingland and joined the Middle Temple, where, obtuning a special dispensit on of terms he passed out in 1884 returning to India the same very In 1001, he ignin visited England for a short respite and returned in 1002, and has since been practising at the Chief Court, I ahore Mr Gould-bury is the eldest surviving son of the late I rancis Goulds bury a Civilian of Bengal who dso held the Commissionership of Cuttack and Ryshave and saved tor about 38 years. He has been t member of the Misenic crift since 1806 and takes about interest in all matters connected with clubs in general. He and Sa William Club, Chief Judge, are the oldest surviving members of the original Punjab Club of 186, and the postruts together with that of 81 Chules Riv 17, lite I coutenant-Governor of the Punjab are hanging in the new bu ldını

Mr. ARIHUR GRIA (Licut Colonel, Punjab Light Horse) Bar it Law (Inner Temple), Tahore, Punjab was barn it Trottor, Susex England in the year 1855. He



Mr. ARTHUR CREV

received his education at Welling ton College from 1866 to 1873, and was an open Exhibitioner of New College, Oxford Having completed his studies, he went to the

United States of America, where he remained for about eight years, chiefly connected with the Press. He returned to Ingland in 1885, and was called to the Bar the following He then become till, a member of the North Instern Circuit. He came to India in 1887, and practised it Bombay for over a very where amongst other things he founded the Bombas Art Society Comfelled by failing health he left Bombix for Libert in 1850 and started price tice in the Chief Court of the Punjab His ability soon secured him a leading position at the Bu of which he has been the generally acknowledged leader since Sir Wil him Rittian's retirement. He has been for several years. President of the Bu Association. He is Commandant of the Pumpib Light Horse which he himself organised in 1802, and is on the Sub Council of the United Service Institution Colonel Grey is well known as a Freemisor, and is Grand Superintendent of the Royal Arch is well is District Grand Master in the Punjah Todge Grey of which he was the first Master was named ifter him. He is also the Semor Permanent Trustee of the Punjab Misonic Institution. He owns a large ter estate in Kinger consisting of about \$1,000 acres and is a member of the Ica Cas Committee. He was one of the pria cipils who obtained a concession for the Della Durbar I lectric Iraniway Lighting Company, and he takes a great interest in electric enter prises generall. At the Delhi Durbit he commanded a composite regiment of Volunte's Cavalry, which formed the escort of H I th Comminder in Chief He is a keen sportsman, but his partiality lies chiefly towards motoring Colonel Grey is the eldest son of the late Colonel Francis D. Grev, who commanded the 30th (Hampshire) Regiment His grindfather was Bishop of Hereford, and he is a grandson of the first Larl Grey

Mr J H J EE HORWOOD was born in Bendigo Victoria Australia, in 1862, educated at Horton College, I ismain, and Scotch College, Mel bourne, took the degree, with honours of Vister of Civil Engineer ing, Melbourne University, in 1883, und joined the Institution of Civil Engineers, London Between his College and University periods Mr Lee Horwood devoted three years to mechanical engineering



Mr. J. H. Lii Hotwood

Bridge designing and general rulway work for the Tasmanian and Victorian Government Railways filled in the next 3½ years. Having resigned his appointment with the Victorian Government Rulways in April 1886 he joined Millar Bros, Rulway Contractors, as Engineer, on the construction of the Dimboola Servicetown Rulway, 60 miles in langth

On completion of the Dimbooli Rulwin Mr Lee Horwood was appointed Engineer in charge for the construction of the Albany Beverley Rulway After complet ing 100 miles of this line, and owing to an accident necessitating a sedentary life, Mr Lee Horwood was appointed from among 34 can didates, to the Chair of Professor of Engineering and Surveying at the Billarat School of Mines, which position he occupied for over five years, when he again resumed the active pursuit of his profession as General Manager and Engineer in-charge of the Northam Southern Cross Rul way, West Australia, 170 miles in length, and on completion of the construction, took charge of the running of the traffic, an impor-tant feature of the above contract

ingly entered himself as an Advocate of the Chief Court of Burma in the city. He remained in good practice at Rangoon for five years till the death of his father, in 1900, which threw upon him the duties connected with the manage ment of the family estate, and he returned to Poona to carry them out. Settled in Poona he has, ever since, devoted himself to legal practice in which he has acquired a considerable reputation. He gives part of his time to public affairs, and is a Government nominee for the City Corporation of Poona.

Dr TRILOKINATH GHOSE, Meerut, was born in September



Dr T N CHOSE

1840, at Chinsura near Calcutta He comes of a well known Bengalee family known as the "Ghoses of Chandernagore" His home at Chinsura is known as the "House of the Seven Brothers" He received his education at the Free Church Institution, and passed the Infrance Examination of the "leath University with credit Having secured a scholarship he proceeded to the Calcutta Medical folloge where he followed the precented course of study for five very. Here he guined more than one scholarship and passed out with the degree of LMS. In 1867 Dr. Ghose entered Government service and was placed in

charge of the Sudder Dispensary at Meerut Those were days when the natives of India had little faith in Western medical science, but the skill of Di Ghose soon wrought a change at Meerut, which was evidenced by increasing attendance for treatment Dr Ghose has put in the whole of his Government service at Meeiut, where he obtained great local fame as "Dr Triloki nath" among the natives course of his practice as a surgeon he has performed the greater part of the major operations in surgery has obtained the approba tion of his superiors, and his name is favourably mentioned in official reports for medical skill and administrative ability His is a unique record, for he was never transferred during his service, a tilbute to the regard in which he was held by Government During the Russian war panic of 1885, he volunteered for service in the field, and his offer was endcised by the late Di Moii, the Civil Surgeon, who stated that his services would be invaluable, as he was much more experienced in operations than most officers in the Aimy Medical Service Di Ghose retired from Government service in 1891, and an address was presented to him by the towns folk of Meerut, praying him to continue practice in their midst, a token of the esteem in which he is held He has practised in Meerut ever since As a surgeon and specialist in eye diseases, he has obtained a wide reputation. In the early seventies Di Ghose persuaded one of his Bengalee friends to open a druggist's store at Meerut, to ensure a supply of pure drugs This insti-tution, known as the "New Medical Hall", has flourished, and is now carried on on a large scale Dr Ghose is a well-known and highly respected Freemason and has held offices in the Grand Lodge of Bengal He is secretary of the Cantonment A V School, also of the local Harr Shava and manager of the Durgabai, which institution owes to him the celebrity which its annual solemnisa tion of the Durga Puja has secured in recent years Dr Ghose has gained great reputation for his He dispenses medical and to the poor without distinction of caste or creed and his popularity as a consequence is unbounded

Di Ghose's door is open to all comers, and his charities are as catholic as they are unostentatious

Mr JAMES R E GOULDS BURY, Bai at Law, Lahore, Pur jab, was born at Sylhet, E Bengal, in the year 1837, and educated privately. He started life in military service at the age of 17, joining the Lancashire Militia as an Ensign and went with the regiment to garrison the Ionian Islands in 1855. On the disbandment of the regiment at the conclusion of active operations in 1856, he returned to England and



Mr JAMES R P GOULDSBURY

sailed for India the same year, via the Cape, in a ship of 800 tons burder. He arrived in India in the eventful year of 1857, just when the Mutiny broke out Following his adventurous bent, Mr Gouldsbury enlisted in the Bengal Yeomaniy Cavalry and went through the Oudh Campaigns On joining the forces under the Command of Bigadier General Rowcroft, he took a promi nent part in those troublous times The Mutiny over, he served as Extra Assistant Commissioner in several districts of the Punjab, viz, Gugera, Ferozepore, etc., and in 1866, he left the Commission and Joined the Chief Court Bar, Lahore, which was estab lished in the same year Two years later he was commissioned to Chota Nagpur, but did not accept the ever since Mr Mooie is a member of the Bar Association in Meerut,



Mr FRANCIS W MOORE

md has acted as President of the Association for three years

Mr SYED ALAY NABI, BA, Vakil of the High Court, United



Mr SIED ALAI NIBI

Provinces, was boin at Agra in the year 1875. He was educated at St. John's College, Agra, from whence he took his degree as Bachelor of Arts in 1896 He commenced practice in the year 1901 Mr S A Nabi is the Vice-President of the Agra Municipality, to which office he was appointed 11 April, 1906

Mr ERNEST AUGUSTUS NEW TON, Pleader, High Court, United Provinces, was born on the 12th March, 1848 at Clare, Suffolk, and was educated at Norland College, He is the son of the late I ondon Thomas Newton, Bar at I aw, who was an Advocate of the N W P High Court, with an exten sive practice in Northern India and the Punjab, and who became famous as the Advocate of the Begum Sumroo in her Arms' suit against Covernment He was also engaged in the great suit of Raja Rainben Sing of Landoura, the Indian "Tichborne Case" On his death in 1875 Mr Einest Newton, the subject of the present sketch, declined to continue the advocacy of this case, not believing in its truth Mr Einest Newton took collegiate honours in English and Mathe matics, and carried off the Natural Science medal, and honours in Natural History, Chemistry, Draw ing, and French at the College of Preceptors, London He is a mem ber of that Society to the present day He matriculated at the London University and joined Gray's Inn with a view to being called to the Bar Domestic com plications, however, prevented his completing his legal course He came out to India in 1868 and joined his father's office and eventu ally passed the High Court Pleaders' Examination in which he was placed "first with credit" He was enrolled a Pleader of the North Western Provinces High Court in August 1874 He has practised in that Court, and Courts subordinate to it, ever since He commenced practice in Dehra Dun, where he secured the appointment of Govern ment Pleader, and soon acquired an extensive civil practice In the year 1883, he removed to Meerut where he has ever since practised almost continuously He has made a repu tation for fearless independence as a criminal lawyer He is now the senior member of the local Bar and one of the oldest members of the High Court Bar of the United Provinces

Mr Newton was offered appointment as Magistrate in the Statutory Civil Service by Sir Auckland Colvir, late Lieutenant Governor of the then North Western Provinces, on the recommendation of the late Sii John Edge and Sir Douglas Strught, Chief Justice, and Puisne Judge, respectively, of the Allahabad High Court, but he declined the appointment as the emoluments were not sufficient to induce him to abandon his very extensive and lucrative practice Within the last few years Mr Newton has received Rs 8,500 from Government for a plot of ground which he purchased from Govern ment for the sum of Rs 80 only



Mr E NEUTON

On this land he had built an office which cost him under a thousand rupees, a portion of which he let out, receiving for the same about Rs 5,000 as rent. Mr. Newton is a well known Freemason. He is the oldest Past Master of Lodge "Hope", Meerut, and a Past District Grand Warden in the English constitution.

He is the oldest Past Master of Lodge "Caledonia," and a PastGrand Senior Warden of the Scotch Constitution, and a Past Warden of Lodge "Charity" of the Irish Constitution

"Charity" of the Irish Constitution
He is a Past District Grand
Senior Warden of The Mark Lodge
and a Past Master and Honorary
Member of Mark Lodge "Voussoir,"
Meerut

was the construction of four large reservoirs

A successful private practice for four years on Coolgardie and Kal goothe gold fields completed his carret up to 1899 On these gold fields Mr Lee Horwood carried out the construction of a port on of the Coolgardie Ralway, the Coolgardie Reservoir, the prel minary work of the Menzies Water Supply scheme, Kurmalpi Water Supply scheme, Coolgardie Hampton Plains Tram way and supply and elect on of a large number of mining plants He also conducted an extensive practice as Mining Engineer and Surveyor, reporting on mines for various London Companies

During two years of his residence in West Australia Mr. Lee Horwood held the position of Chairman to the Board of Examiners for Engineers under the West Australian Government. On completing a six months' tour through the United Kingdom and the Continent in the latter hilf of 1899 at the end of that year he left London for India, as representative of Millar's Karl, and Jariah

Company (1902), Limited

For fifteen months during 1902 1903, Mr Lee Horwood served as Municipal Engineer to the Municipality of Lahore Punjab, under the Public Works Department of India, and obtained sanction from the Government of India for the execution of several large schemes for the 1 m provement of the sewerage system, water supply, and conservancy tramway for the City and Cantonment of Lahore

I ee Horwood's resignat on from the Public Works Department was at first refused, but on the recommendation of the Sanitary Commissioner foi the Puninb and the Deputy Commissioner of Lahore, a five years' agreement was offered to him, this, however, was again refused, and Mr Lee Horwood reverted to his appoint ment with Messrs Millar's Kuri nd Jarrah Company (1902), Limited

Mr Lee Horwood holds the following Australian diplomas — M C E (Mister of Civil Engineering), Authorized Government Mining Surveyor, Authorized Government Lind Surveyor, Authorized Municipal Engineer

Mr KALINAIH MITTER, CIE, Solic tor and Vak I of the High Court, belongs to a Kuhn K reastha fam ly He was educated at the High School and Pies dency College, and after finishing his education became at eled to the late Mr E H Sims, Solic tor, Calcutta He was eprolled as an attorner in July 1868 and entered anto partnership with Mr Sims, with whom he continued until 1873, when he began to practise on his own account He was admitted as a Vikil of the High Court on the 27th July 1872

In 1893 he was joined in his practice by Babu Deva Prasad Sarbadh kary, MA, BL, and they have continued together sincounder



Mi Kali Nath Mitte, cir

the name of Messis Kalı Nath Mitter and Sarbadh kaiv He is a member of the British Ind an Asso c ation, of which he has been elected as one of the V ce Pres dents, and was for 23 years an elected Municipal Commiss oner of Calcutta, in which capacity he took an active and prominent part in the settle ment of most of the momentous matters which were brought up for discuss on during that per od He wth several others, owng to some misunderstanding with the Local Government, resigned his seat in the Corporation While a Munic pal Comm ssioner he was appointed by Government to serve on com

mittees appointed to consider the des ribility of the introduction of the Octio system, and that of the amilgamition of some port on of the suburban area with the town irea, and in consequence of his nt mate knowledge of Munic pal affirs, Sir Rivers Thompson nom nited him as a Member of the Legislatic Council of Bengal, in which capacity he served for two years, during which period the Mun c pal Act of 1888 was passed. He was one of the joint Secretaries of the Albert V ctor Permanent Memo ial Fund which was made over to the Government and became the nucleus of the Albert V ctor Hospital it Belgatch a, and he has recently been appointed by Government as a member of the Committee for organising a paying Ward in the Med cal College Hosp tal for the benefit of the Indian public He s also a governor of the Bhagaw in Dass Bogin Marwari Hospital Sr Alexander Mackenze, the Lieute nant Governor of Bengal, appointed hm a Member of the Calcutta Bu lding Commiss on under the pres dency of the Hon'ble Mr Jus tice Trevelyan, as a result of the labours of which Commission the existing Municipal Act, so far as the Bulding Regulations are concerned, was passed. He has been a Pres dency Mag strate for many years and is a leading member of the Kayastha Sabha which makes soc al reform on str ctly Hindu lines its object

For hs varous and meritorious services he received the decoration of CIE in 1901

FRANCIS WILLIAM MOORE, Barrister-at Law, Meerut, was born in 1864, at Agra, and educated at St Paul's School, Dai On the completion of his school course, Mr Moore joined the service of Government in the Survey Department, in which he served for six or seven years. In the year 1890 he resigned Government ser vice and subsequently proceeded to England where he entered him self at Middle Temple, and in due course was called to the Bai He then returned to India and com menced practice at Agra, where he remuned till the year 1899 In 1900 he removed to Meerut, in which city he has been practising

ment, where he remained till 1896 when he returned to Lahore as Assistant Civil Surgeon Prior to this he officiated for three months as Civil Surgeon, Lyallpur, in 1893 In 1900, he again visited Europe and qualified as M D (Brux) with honours, and FRCS (Edin) by examination, and on returning to India he reverted to his previous appointment He was transferred as Civil Surgeon to Shahpur in 1906, and this was his last appointment prior to going on 15 months' leave Dr Owen is Medical Referee of the Presbyterian Life Assurance Fund, and Medical Examiner to several Life Assurance Companies He is Past Master, local English Lodge "Hope and Perseverance" and has taken other high degrees in Freemasonry, in which he takes a keen interest Dr Owen is the eldest son of Arthur Owen, the blind Indian Mutiny veteran, who was singled out by Lord Curzon at the Delhi Coronation Durbar Dr Owen is about to retire from the service, and has resumed his professional work at his present residence, Hall Road, Lahore

Babu SATISH CHANDRA PAL-CHOWDHURY Attorney-at-Law, Calcutta High Court, is the second son of the late Babu Prosonna Gopal Pal Chowdhury and was born in 1868 He comes of the celebrated Pal-Chowdhury family of Ranaghat, in Nadia Bengal, which was founded by the brothers Krishna Chandra (Panti) Pal-Chowdhury and Sumbhoo Chandra (Panti) Pal Chowdhury who were born nearly 150 years ago Kushna Pal was the architect of his own fortune, and from very humble beginnings he rose to the position of a merchant prince, amassing by trade a colossal fortune He invested vast sums of money in the purchase of zemindaries He was distinguished for his liberality The then Governor-General of India, the Marquis of Hastings offered to confer upon him the title of "Rajah," but Krishna Pal was naturally of a simple and modest disposition and preferred to retain the title of Chowdhury already bestowed upon him His Excellency accordingly conferred on him the title of "Pal-Chowdhury" by which the members of the family are known to this day

The traditions of the family were carried on by Krishna Pal's descendants and the family possessions were still further added to and enhanced in importance, and the Pal-Chowdhurys established themselves in a very prominent position in Bengal The fortunes of the family, however, suffered in the great law suit which lasted in the old Supreme Court of Calcutta for nearly 50 years, covering three generations of the family This cost them huge sums of money and resulted in the loss of many of their valuable estates The suit came to an end in the time of the brothers Sree Gopal and Prosonno Gopal, great grandsons of Sumbhoo



Babu Satish Chandra Pal Chowdhura

Chandra In recent years the most prominent member of the Pal Chowdhurys was the late Babu Surendra Nath, first cousin of Babu Satish Chandra, the subject of the present sketch. In his time H E the Marquis of Ripon, when Viceroy of India and Sir Rivers Thompson, the then Lieutenant-Governor of Bengal visited Ranaghat and were good enough to accept the hospitality of the family who have been similarly honoured by many other high Government officials from time to time The Pal Chowdhurys are still a distinguished family and are considered as almost next in rank to the Maharaja of Krishnagar in the district of Nadia

The family have always been distinguished for public spirit charity, and marked loyalty to Government, and have been privileged in consequence to enjoy the esteem and confidence of the authorities

Babu Satish Chandra Pal Chowdhury had the misfortune to lose his father in October 1874, when he was only 7 years of age He was brought up by his mother until he reached the age of 19, when she too, unhappily, died He then passed under the care of near relatives He first prosecuted his studies at school in his native town, and matriculated from the Calcutta Hindu School He continued his education at the G A College and the Presidency College, Calcutta He graduated in due course from the Calcutta University and entered upon his articles to the late Mr A St J Carruthers the well-known Calcutta solicitor in 1893 He was in due course admitted as an Attorney of the Calcutta High Court on 1st December, 1899 and since then has practised as such, leaving the management of the family estate to the resident members of the family On the 12th March, 1884, he married into the family of the Dey-Chowdhurys of Ranaghat but has no issue

DI F F LANYON PENNO, MRCS, LRCP, and LSA Bombay, was born in Ordnance Island, St George's Bermuda, and is the son of the late Major General William Lanyon Penno, Ordnance Department, England He received his education privately at De-vonport and Stoke Grammar School under the two celebrated Ionases and at Devonport House under Mr Langdon He began his medical career, against much opposition, at Rochester Hospital Rochester, under Dr Nankivell, and subsequently, of his own choice, went to London to University College Hospital, Gower Street, where he obtained his surgical and medical knowledge under the great surgeons and medical men of the day On leaving the hospital, Mr Berkley Hill, the Dean wrote of Dr Penno tnat he would be able to conduct a large practice to the satisfaction of his patients and himself Dr Penno in 1888, decided to select India as his field of operations and he fir-t

He is a Past District Grand Principal "H" of the District Grand Chapter of Royal Arch Masons and a Past "Z" of Chapter Prinsep Meerut

He is a Past Preceptor of the "Duke of Connaught and Strathearn" Preceptory of Knights Templa and Knights of Malta He is a Past Most Wise Sovereign

He is a Past Most Wise Sovereign of the Duke of Connaught and Strathearn Rose Cioix Chapter

Mr BRIAN EDWARD O'CONOR, Burister at Law, Allahabad Mr O'Conor is the only son of Mi J E O'Conor, CIE, late Director General of Statistics for India He wis born at Calcutta in the year 1869 and was educated at Dublin, where he graduated in 1892 He read for the Bar and was called it the King's Inns in the same year. On his arrival in India in 1893 he was enrolled as an Advocate of the



Mi B I O'CONOR

Allahabad High Court He has a large practice in Allahabad, and is Honorary Secretary of the High Court Bar Association at Allahabad

Mr CHARLES HORMAN OERTEL (Captain, 1st Punjab Volunteer Rifles), Barrister at Law of Lahore, Punjab, 15 an Advocate of the High Court of Allahabad and of the Chief Court of the Punjab

He was educated partly on the Continent and partly in London, joined Lincoln's Inn in 1883, and was called to the Bar in 1886. For a time Mr. Ocited practised in London, and shared chambers in Princes Court Temple with Mr. Harmsworth, Barrister at Law, and father of the



Mi C II Otriti

present I and Haimsworth, of newspaper fame. He came to India in 1888 and joined the I egislative Department of the Government of India as Special Assistant Secretary. In the following year he acted as Deputy Secretary in the same Department, but he resigned the service towards the end of that year and joined the Lahore Bar He has been practising at the Chief Court ever since

Under the suspices of the Government of India, Mr Oertel has compiled several works on law, and he is the author, inter alia, of the "Burma Code" and the "Punjab Code"

Besides having a leading practice at the Bai Mi Ocitel takes a keen interest in industrial and commercial undertakings. He is the founder and Managing Director of the Himalaya Glass Works, Limited, situated at Rajpur near Dehra Dun, practically the pioneer Glass Works in India. He is also a Director of the Kashmir Mineral Company, I imited As a Mason he has passed

through the Chair of Master of Lodge Hope and Persever meet and is a P.D. G. Registrar Heis a Captum of the 1st Punjab Volunteer Rifles and Honoray Treasurer of the Chief Court, Bar Association

Dr CHARIES ARTHUR OWEN, MD, IRCS (Edm), IRCP (Iond), MRC5 (Eng), (Edin). late Civil Surgeon, Shahpur, wis born at Bangalore in 1861, and educated at In Martinere College Lucknow He entered the Indian Subordinate Medical Service in 1876, and after a preliminary medical training was attached to the Medical Collège Calcutta, for a three years course of training. He was then posted to military duty in which he remained for the next ten years. In 1889, he obtained a year's leave and proceeded to England, where he qualified and obtained the degree of IRCP (Lond), MRCS (Eng.) During this period he also competed for the Indian Medical Service and



Dr C 1 OWEN

passed the necessary examination, but received no appointment owing to the lack of vacancies. On his return to India, he was transferred to the Civil Department and appointed Lecturer on Pharmacy at the Lahore Medical College. In 1894, he was transferred to Simla, in charge of the clerical establish-

fied his expectations, for Kaviraj Nagendra Nath has required a great name in his profession As a consequence of the durl nature of his qualifications, the name of Kaviiaj Nagendra Nath is well known in Europe, as well as to his own countrymen in India He has been elected a Member of the Surgical Aid Society of London, the Chemical Society of Paris, and the Society of Chemical Industry, London, and is the first Indian gentleman who has obtained this triple honour The Kaviraj has done much towards raising the status of Hindu medicine in the estimation of the world Endowed with a practical mind, and well equipped



Kaviry N N SEN

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Mr MIAN MUHAMMAD SHAFI, Bar at Law (of the well known Mian fimily of Bighbinpuri), Li hore, Punjab, was born at Bagh banpura on 10th March, 1869, and received his education principally at the Government and Forman Christian Colleges, Lahore He proceeded to England in 1889 to study for the Bar, and entered the Middle Temple While in England he had the honour of a presentation at a levee held by the late Queen-Empress He was Vice President of the Anjuman r Islamia, a member of the Paddington Parliament, and the National Indian Association, and often took part in the discussions of the Society of Aits and the East Indian Association He took an active part in the General Election of 1892, and addressed many meet ings in the Unionist interest He distinguished himself at the Middle Temple by winning a scholarship in International and Constitutional Law, and was finally called to the Bar in 1892 Returning to India the same year he started practice at

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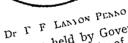
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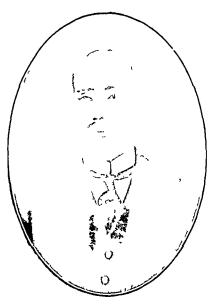
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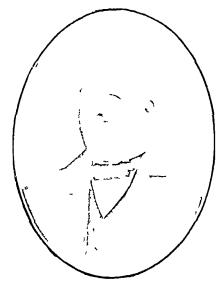
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THE CYCLOPEDIA OF INDIA

profound and he can grasp the intricacies of a case quickly and He is a haid worker, and his industry and ability have accurately secured for him a commanding posi

Notwithstanding his large and tion at the Bai extensive professional business he is able to find time to devote to the service of his country, and is well known for his public spirited labours He has been a member of the Lucknow Municipal Board since 1884, and its Vice Chairman since 1889 His work on that Board is much appreciated, alike by the people and by Government people and by Government III 1893 he was made a Rai Bahadur, and in 1900 Her Majesty the late Queen Victoria bestowed upon him the Kaisar i-Hind Gold Medal for public services in India For his meritorious services during famine of 1896 97, a certificate of honour was presented to him by His Honour Sir Antony MacDonnell, at a Durbar held in Lucknow

In the year 1893 Rai Sri Ram was appointed a Member of the Lieutenant-Governor's Council, re presenting the Lucknow group of Municipal Boards, and he continues to hold this position In the years to hold this position In the years 1900, 1902, and 1904, he was nominated a Member of His Excellency the Viceroy's Legislative Council, and served in that capacity till october 1906 His services on that Council have been valuable to his constituents and appreciated by

Government, who conferred upon him 2 C I E in 1906 - ...

Rai Sri Ram was a Fellow of the Allahabad University from 1894 to 1904 and has always displayed an interest in educational matters He is a member on a large num ber of commutees of public insti tutions and is an honorary magis trate He has devoted himself also to chantable works, and built and endowed the affirst class dispensary for outdoor and indoor patients at Ajodhya, at his own expense

own expense On the death of his father, Dewan Mewa Ram, he succeeded to the Taluqa of Rasulpur in the district of Fixabid, Oudh, succession to which is regulated by the rule of

primogeniture

Messrs UNWALLA & PEEROZ SHAW, Solicitois and Votanes Vota11es Public, 48, Merdows Street Bom bay Partners Messis Ardeshir Framjee Unwilla and N Feeroz This firm was originally started by Mr Unwalla in the year 1900, in which year Mr Peerozshaw joined him Ardeshir Framjee Unwalla, semor partner, was born in Bombay in the year 1864, and was educated in the Elphinstone College In the year 1882, he obtained his degree of Bachelor of Arts of the Bombay Soon after, he got icled to Mr R S Brown, one of the most prominent University Soon

and leading Solicitors of Bombay at that time Mr Unwalla passed out as a Solicitor in the year 1890 In his college days he was a well known amateur actor and took part n several Shakesperian and other plays performed by the plays performed by the Diamatic Club". He has been



Mi A F UNWALLY practising as a Solicitor for the last 17 years and commands a good practice He has also been a Mem ber of the Municipal Corporation of Bombay for nearly 15 years, and is at present a nominee of Govern ment on that body



Since his actuan from England, he has been taking keen interest in the promotion of the welfare of the Mahomedan, as well as the agu cultural communities He is the General Secretary of the Zemin dars' Association, Lahore, Vice President of the Young Men's Mahomedan Association, i member of the Executive Committee of the Anjuman i Islamia, Punjab, member of the General Council and Executive Committee of the Anju man 1-Himayat 1 Islam, Lahore, and Vice Piesident of the Young Men's Indian Association On the occasion of the celebration of the Diamond Jubilee of Hei Majesty the late Queen Victoria, he was a member of the deputation which presented the address of the Mahomedans of the Punjab at the Durbai held by I old Elgin it Simla, and was Joint Secret ii, with the Registian of the Chief Court, of the Executive Committee of the Queen Victoria Memorial Fund He was also a (Punjab Branch) member of the All India Mahomedan Deputation which, on the 1st October 1906, presented a memorral on behalf of the Indian Musalmuns to His Excellency the Viceroy, and has been elected by the members of the Anjuman i-Behleud i Musalman of Dehli as the pation of that association

P SINHA INS, Major N MRCP, Lond, WRCS, Eng was born on the 1858, at Raipur Birbhum, Bengal, and was educated at the District School, and Presidency College Calcutta He entered for his medical course at the Medical College Hospital Calcutta and proceeded to England to pursue his studies at University College and King's College London He entered the Indian Medical Service in 1886, and was in military employ until transferred to civil employ war services were with the Buimese Expedition, Tirah Expedition and Chinese Expedition Major Sinha was specially mentioned as Registrar of General Hospitals in the Tirah Expedition and again as a Principal Medical Officer in the Chinese Expedition He was appointed to act as first class Civil Surgeon in 1904, before retirement

Mr RICHARD KAIKHUSROO SORABJI, Bar at Liw, Allihabad, was born at Belgaum, Bombay, in the year 1872. His education was commenced in Poona. He was then sent to Englind and placed in school at Ramsgate. After his school eneer he proceeded to Balhol College, Oxford, from which College he graduated with honours in 1893. He proceeded to London and read for the Bar Being cilled, he returned to India and was enrolled in advocate of the High Court, Allahabad in the year 1897. In the veri 1902. Mr Sorabji was appointed Professor



Mi R K Sorabji

of Law at the Muir Central College In private life Mr Sorabii devotes himself largely to philanthropy, with a special care for children in whom he takes a great interest. One of his chief pleasures is to organize entertainments for boys and girls who have not the opportunity of going to the hills His Honour the Lieutenant Governor has aided M1 Sorabli in his efforts by lending Government grounds for the purpose of fêtes, etc. Frequently, as many as seven or eight hundred of the little ones gather at the entertainments he organizes, and that instruction may be combined with pleasure, the programmes include competitions in various useful aits, for which prizes are given

The Hon'ble Rai SRI RAM, Bahadui, CIE, Lucknow, who is the acknowledged leader of the Indian section of the Oudh But, was born at Lucknow in 1854 He belongs to in old and respected family, members of which have held high offices under the Kings of Delhi and the Nawabs of Oudh After having increased a good education in the vernicular and Persian it home he joined the Criming College where he showed a remarkable aptitude for acquiring know ledge and in a short time became i Inomite pupil of his teachers ind professors. In every class, from the lowest to the lughest, he was the recipient of prizes and scholarships. He obtained the degrees of BA (1875), MA in Sanskrit (1876), and B L (1877), from the Calcutta University He joined the Bri at Lucknow, and shortly after he passed the Vakils' Examination of the N-W P High ' in the list of Although in

1879 he was appointed by the Government of the North-Westein Provinces and Oudh as an Extra Assistant Commissioner he continued



RAI SKI RAM, BAHADUR

to practise as a valid. He held the appointment of Public Prosecutor and Government Pleader for Oudh from 1884 to 1896 and filled it with credit. His knowledge of law is

Mr FREDERICK ARCHIB LD LESLIE-JONES WY, Principal, Artchison College Lahore, was born in England in the year 1874, and was educated at Bromsgrove School,



Mr. I. A. Listii Joses

and Lincoln College, Oxford, where he graduated in 1897. He then joined Marlborough College as Assistant Master, where he remained till 1904, when he proceeded to India to take up his appointment at the Aitch son. Chiefs' College. Mr. Leshe Jones as a Fellow of the Punjab University

History of the BOARD OF EXAMINERS, Calcutta

The Board of Examiners came into existence in January 1854, in succession to the College of Fort William, abolished at that time was in reality only a change of name, as the Board of Examiners per formed all the functions hitherto discharged by the College of Fort William The change was probably due to a feeling that for many years previously the title of 'College' was somewhat of a misnomer as the character of I ord Welleslev's ong inal foundation had been completely altered by changes in system intio duced during successive administra From being a College with resident students and tutorial staff, it had become merely an institution where examinations were

held and consequently was, in fact, as its new designation implied a Bould of Examiners

Su Robert Barlow, Barouct was appointed its first President in 1854, while the duties of Secretary were entrusted to Lieutenant Nass in Lees, who was at the time of its abolition Secretary to the College of Foit William There were ilso several members of the Board

The dities of the Board of Examiners were not confined to examining in Oriental Languages, masmuch as from 1856 to 1861, the Board held the examinations of candidates for direct commissions in the Army

The Board has, for some years past, consisted of a President traditionally a Judge of the High Court, and a military officer as Secretary The Secretary assisted by a staff of Maulavis and Pandits, is also Exami er in certair languages Additional temporary Examiners are appointed from time to time as There used to be necessity arises Sanskrit and Bengali Examiner permanently attached to the Board, but this office was abolished in 1902 There was too in former years a H ndi Examiner, but upon the retire ment of Dr Hoernle in 1898 this post also was abolished

The Board of Examiners was ong mally located in Writers' Buildings, in the offices formerly occupied by the College of Fort William About 1855 it was moved to No 46, Chow ringhee, as a temporary measure, and thence to No r, Little Russell Street During the Mutiny of 1857 this latter house was appropriated as a hospital for officers, and the Board was in consequence transferred to No 8, On Elysium Row (now No 17) January 1st, 1902, the Board's Offices and Library were moved to the top flat of the old Agra Bank Building at the corner of Mangoe I are and Mission Row, but have now again been moved to a quieter and more suitable position, viz, No 4, Park Street, not far from the build ing of the Asiatic Society of Bengal

COLLEGE OF FORT WILLIAM Founded by the Most Noble Richard, Marquis of Welles ley 1800

Provost—Revd David Brown Vice Provost—Revd Claudius Buchanan Members of the College Council
The Hon'ble Henry Wellesley,
1801

George Hilaro Barlow, Esq, 1801

Neil Benjamin Edmunston, Esq, 1801

John Lumsden Esq 1802 John Heibert Harington, Esq, 1802

Henry Thomas Colebrooke, Esq, 1802

John Fombelle Esq 1807
Jumes Stuart Esq, 1810
Robert Ker Esq, 1817
John Fendall, Esq, 1817
William Edward Rees, Esq, 1818

Sir J C Colebrooke, Bart, 1819 Courtney Smith, Esq, 1820 William Butterworth Bayley, Esq, 1820

George Swinton, Esq., 1820
Holt Mackenzie Esq., 1820
S. T. Gord Esq., 1822
J. H. Harington, Esq., 1824
A. Stirling, Esq., 1825
W. H. Wienighton Esq., 1825
E. Molony Esq., 1825
Henry Shakespeare, Esq., 1826
H. G. Christian, Esq., 1826
Secretaries—

Charles Rothman Esq, Apul, 1801

William Hunter, MD 1st November, 1805

Lieut William Macdougall, Offg May, 1807

Dr John Leyden Asst Secy, 20th September, 1807

Lieut Abraham I ockett, ist November, 1811

I leut Archibald Galloway, Asst

Secy, 1st November, 1811 James Atkinson, Esq, M D, Offg Asst Secy, 31d January, 1815

Asst Secy, 31d January, 1815
Lieut Thomas Roebuck, Offg, 7th January, 1817

Lieut Ruddel 1st European Regiment 11th March, 1824

Lieut Hugh Todd, 21st Native Infantry, 17th January, 1832 Captain J W J Ouseley, 28th

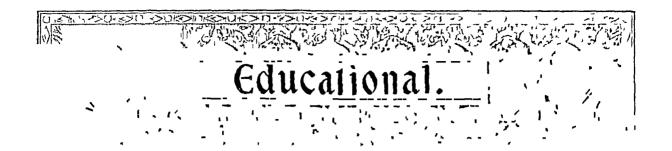
N I, 17th April 1832 Captain G T Marshall, 35th

N I, 4th July, 1838
Ensign W Nassau Lees, 42nd

Ensign W Nassau Lees, 42nd N I, 5th Maich, 1853

BOARD OF EXAMINERS, CALCUTTA Instituted 24th January, 1854 President—Sir Robert Barlow,

Secretary—Lieut W Nassau Lees, 42nd Regt N I, 1854



AGRA COLLLGL, Agri 1818, Ganga Dhai Shastri beque i thed to the East India Company the ients of certuin lands in the districts of Aligarh and Muttra, for the promotion of education accordance with the Shistri's Will, Agra College was opened in 1823, the endowments then yielding upwirds of Rs 22,000 a year Susbequently, Government added to the income and raised the College to its present In 1883 the management was transferred to a Board of Trustees The College now receives annual grants of Rs 12,000 from Government and Rs 2,500 from the Municipality of Agra, in addition to the original endowments At the time of the transfer the Trustees made an appeal to the noblemen and gentlemen of the Province of Agra, and a lakh of rupees was added to the endowments, while the capital of the scholarship fund was raised from Rs 25,000 to The Maharajas of 45,000 Gwalioi and Bharatpore maintain additional scholarships The Col lege was affiliated in Arts and in Law in 1889, and in Science in 1896 The immediate control of the Col lege is in the hands of a Committee, two of the members of which are official, the remainder being nomin ated by the Trustees The College ated by the Trustees consists of two departments, viz, the College proper under a principal, and the School under a head master There are 700 schoolboys and students enrolled, of whom over 200 are boarders in the College Boarding Houses and 104 in the Caste Board ing Houses

Mr THOMAS CUTHBERTSON JONES, Principal, Agra College, Agra, was born in 1869, at Douglas,

in the Isle of Min, and educated it Bristol Grummu School, and Wesley College, Sheffield under Dr. Dillinger, and at Hinover, He graduated at the Germany I ondon University taking first class honours in Linglish und French literature After complet ing his collegiate career, Mr Jones accepted the position of senior house master at Bilton Gringe College, Harrogate In the veni 1894 he proceeded to India to take up the appointment of headmaster at Oak Openings School, Num Til From there he was transferred to Agra College in 1805 in the post of Junior Professor, and in 1807 was promoted to Senior Professor In 1901 he was made Principal of the College, on the death of Mr A Thomson, the late Principal Mr Jones is a Fellow of the Allahabad University

AITCHISON CHIEFS' LEGE, Lahore, Punjab This institution was founded for the benefit of the sons of Indian Noblemen, Rajahs and Nawabs and gentlemen of high social standing of the Punjab and Frontier Provinces, Hindu, Sikh and Mussulman The object of the College is to impart a sound liberal education, on English public school lines, to Indian gentlemen of the above class Special stress in the higher classes is laid upon political economy, law, and revenue, as tending to perfect the administrative abil ities of the pupils, and thus fit them for the exalted stations they will be called upon to occupy in later life Great pains are taken to impait a knowledge of the English language and literature, and the award of a diploma for a special course to a student of this College from the

Government of India, is accepted is equality to the passeert heate of the Punjab University for the Ln trunce Iximination The whole course of the College is directed to wards caucating the students is gentlemen, in the best sense of the Their physical well being is well looked after, and games and minly sports ire compulsory, is in similar institutions in Lingland The students are accommodated in three boarding houses situated behand the man College building Lich student is illotted aseparate room. In the grounds there is a small hospital, also a gymnasium, und for the religious needs of the various classes there is a mosque (built by the late Naw ib of Bahawal pur) for Mussulmans A temple and i dharamsala, for the Hindus and Sikhs, respectively, are require ments which it is hoped will shortly Attached to the College there are several acres of cultivated land, under wheat and other produce, the proceeds of which assist the finances of the College There are at present about eighty three students, nearly all boarders, at the College, and the attendance is on the increase The foundation stone of the institution was laid by Sir Charles Aitchison, when Lieutenant-Governor of the Punjab The au thorities had long been cognisant of the necessity for such a college for the important class which now benefits by it, but it was not till public interest was awakened that it assumed practical shape. This being effected, the Indian Chiefs and Princes speedily proved their appreciation of the project, and the joint capital of Rs 4,82,000 was raised within a comparatively short penod

Lahore Medical College During his long connection with the Lahore Medical College he has also occupied the Chairs of Botany and of Comparative Anatomy He is at present Dian of the Faculty of Science, and one of the representatives of that Faculty on the Syndicate of the Punjab University He is an examiner in Physiology, Botany, and Comparative Anatomy in the University, and is the author of "Eyesight in Schools" published by the authority of the Punjab Text book Committee and adopted by the Educational Departments of Bombay and the Punjab as a text book in Secondary Schools

Professor Caleb plactises as a consultant in eye and ear diseases His principal contributions to medical literature are —"Stammering," "Ferments in relation to Fermentation, Putrefaction, and Disease," in the Transactions of the Medical Society of the University of Durham, "Hypnotism" and various papers on "Refraction" and "Diseases of the Eye" in the Calcutta Indian Medical Journal

Professor Caleb takes a keen interest in Freemasonry, and is a Past Master of Lodge "Hope and Perseverance" No 785, EC, of Lodge "Industry" No 1485, EC, and of Lodge "Albert Victor" No 2370, EC He is a Past President of the District Board of General Purposes, Punjab, and one of the Trustees of the Punjab Masonic Institution

EUROPEAN AND ANGLO IN DIAN DEFENCE ASSOCIATION On the 28th February, 1883 one of the largest meetings of Europeans ever held in the Calcutta Town Hall assembled to protest against the "Ilbert Bill" This Bill deprived European British subjects of the right of trial by Magistrates of their own race, and caused intense excitement all over India excitement spread to the British Army and compelled Lord Ripon's Government ultimately to concede the right of trial by Jury, a right previously confined to Sessions and High Courts, to every European British subject brought up on a warrant before any Magistrate The Town Hall Meeting appointed a Committee, consisting of Messrs J J Keswick, J Flemington, W L

Thomas, A B Miller, G H P Evans, J G Apcar, J Gubbay J H N Branson, E D J Ezra H Finter, W C Madge, J Murdock and D Cruickshank, to prepare memorials against the Bill, to both Houses of Parliament and the Government of India

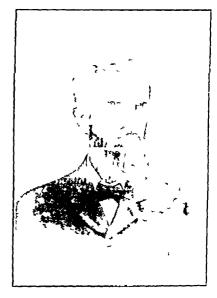
A Sub-Committee of the above Committee was then formed with Mr A B Miller as Chairman, and Mr W C Madge as Honorary Secretary, to form and draw up a constitution for an Association "to watch over and protect the interests and promote the welfare" of all persons of European or British birth or descent or adopting the European standard of living in India Over a lakh and a half of rupees, or £10,000, was collected, which sum was cleased by Rs 30,000 more in annual sub scriptions in the first year

In the two most strenuous years of the Association, 1883 and 1884, Mr J W Furrell and Mr S E J Clarke were its Honorary Sec retaries, Mr Clarke holding the office alone in 1885, and being succeeded in 1886 by Mr Madge, its present incumbent The suc cessive Presidents have been Mr J J Keswick, Sir A Wilson, Mr D Cruickshank, Mr L P D Broughton, Mr J N Stuart, Sir M Turner, Mr L P Pugh, Mr W A Bankier, Mr W Garth, and Mr H W S Sparkes

The Association has carried on its work for over 20 years scrutiniz ing any fresh legislation as well as any administrative action of Government, affecting its constituents Its Council of 20 has contained leading members of the commercial, legal and trading classes, and its constituency has consisted of the classes represented on its Council, besides planters The Government has for years recognised the body and consulted it on subjects of public importance. The Associa-tion holds an Annual Meeting, usually in March, at which it presents its Annual Report and Ac counts and elects its office holders for the ensuing year Originally inspired, no doubt, by warm race feeling, the Association has in recent years been divested of all animus, and while it seeks mainly to preserve valuable legal rights on behalf of its own constituents,

even Indians perceive that the preservation of such rights, which, if once abolished, will never be revived, may eventually be extended to all classes, as the country advances in education and civilization and becomes better able to appreciate them

Mr WALTER CULLEY MADGE, Secretary to the European and Anglo Indian Defence Association was born in the year 1841 at Calcutta and proceeded to Scotland for his education, being placed for this purpose at the Edinburgh High School He returned to India in 1858 and joined the old Salt Department as Superin-



Mr W C MADGE

tendent, in which post he remained for three years. He was then appointed to the Bengal Police and remained in that Department for two years as Assistant Superintendent, and thereafter was ap pointed a Deputy Magistrate. In the year 1872 Mr. Madge joined the Press on which he laboured with some success. In the troubled times in 1881 the European and Anglo Indian Defence Association was founded and Mr Madge joined as Honorary Secretary to the Eve cutive Committee He has remained connected with that body al most ever since, first as Honorary, and afterwards as paid Secretary to the Association He is also PrePresidents

A Sconce, Esq, cs, 1858 Sir Chailes Tievelyin, kcB 1863

E T Tievor, Esq, cs, 1868 V H Schalch, Esq, cs, 1876 J O'Kinealy, Esq, cs, 1877 R F Rampin, Esq, cs, 1899 Secretaries

Major E St George, 16th April

Captain H S Jariett, 18th April

Surgeon-Major G S A Ranking, MD, MRCS IMS, 17th June,

Major (now Lieut Colonel) D C Phillott, 7th April 1905

Babu ANANDA MOHUN BOSE The late Ananda Mohun



The Life ANNDA MOHAN BOSE

Bose was born in the district of Mymensingh in 1848 and educated at the Mymensingh High School and the Presidency College where he had a brilliant career. He, stood first in the FA BA, and MA examinations and immediately after passing the latter he was appointed Professor of Mathematics at the Presidency College. In the following year he gained the Premchand Roychand Scholarship and later on proceeded to England to complete his education. He entered at Christ Church Cambridge, and took part in the debates

of the Cambridge University Union On being called to the Bar in 1874, he returned to India and joined the Calcutta High Court Here he rapidly acquired a reputation as an advocate, but his ambitions did not tend in that direction, and he devoted only sufficient of his time to his professional work to enable him to earn a living His aspirations were to a large extent political, and he was one of the pioneers of the political movement in Bengal With his friend, Nath Banerjee founded the Indian Association in 1876, of which he was elected the first Secretary On the formation of the Indian National Congress he became one of its most fervent supporters In 1897 he again visited England for the purpose of representing to the British public the aspirations of educated Indians and their alleged grievances against the Government During his stay which extended over a year, he addressed numerous public meetings, and on his return to India in 1898 he was elected President of the National Congress, which met that year in Madras He also took the deepest interest in educational matters, and in the various religious and social questions affecting his countrymen He was a Fellow of the Calcutta University and for many years he rendered valuable service in the Senate He was the first member elected to represent the University on the Bengal Legislative Council and he also served on the Education Commission appointed by Lord Ripon He founded the City College which he later on handed over to a Com-The cause of female edumittee cation appealed to his sympathies and he was instrumental in founding the Banga-Mahah Vidyalava (after wards amalgamated with the Bethune College) and the Brahmo Girls' School Babu Ananda was a deeply religious man While yet a student he joined the Brahmo Somaj and when in 1878, the split occurred among the progressive Brahmos he was selected as the leader of the seceding party, which under his leadership was organized into a vigorous and active Church since known as the Shadharan Brahmo Somaj His health broke down after his last visit to England,

and he died on the 20th August, 1906 His last public appearance was on the 16th October, 1905, when he laid the foundation stone of the projected Federation Hall, and was carried to the spot in an invalid's chair

Professor CLEMENT C CALEB, MB, MS (Durham), MRCS (Lond), Professor of Physiology, Medical College, Lahore, was born at Rai Bareilly, India, and educated at the Lahore Medical College, King's College, London, and the University of Durham College of Medicine, Newcastle on-Tyne In 1884, he graduated as MB, taking honouis at the first examination for that degree, and as MS in the following year He is also Semior Medical Scholar and Associate of



Professor CLEMENT C CALEB

King's College, London, and a Medallist and Prizeman in the University of Durham Professor Caleb was for nearly two years Resident Medical Officer at the Mount Veinon Hospital for Consumption and Diseases of the Chest, Hampstead In 1887, on the establishment of two additional professorships at the Lahoie Medical College, he was, on account of his distinguished College career, and on the recommendation of the Punjab Government, appointed as Professor of Physiology and Pathology at the

quate tuition difficult, and students were not attracted The College languished till Mr B H Baden-Powell, then Judge of the Small Cause Court, and Dr Leitner came to its aid Public interest was elicited by a gratuitous series of Law lectures delivered by Mr Baden-Powell The attendance improved, until in 1871 there were 52 regular undergraduates, besides many casual students The staff was also expanded by the engagement of Dr C R Stulpnagel, MA, as assistant Professor At about this time the institution was removed to other premises and installed in a large bungalow in Anarkali, belonging to Lala Devi Das, close to the present Ice Factory For a long time, however, the establishment of the College on a firm basis was delayed by the reluctance of the Government to create a Punjab University to which the existing colleges, Arts, Oriental and Medical, should be affiliated, and which should be empowered to grant degrees distance of the Calcutta University, to which the colleges were affiliated, and the time involved in obtaining Calcutta degrees, were disadvantages felt for several years A movement was set on foot to induce Government to establish a University in the Punjab, but it was long without success In the year 1877, the affairs of the Lahore College were improved by the addition of the Delhi College staff, including Messrs Sime and The College had some time previously been removed to Dr Rahım Khan's Bungalow, on the site of the present Veterinary College, as a temporary measure, pending the completion of the building in which it is now installed, and which was erected at a cost of 3½ lakhs of rupees In the year 1882, the Government yielded to the pressure of public opinion, and by an Act passed in that year, the Punjab University College was transformed into the Punjab University, empowered to grant degrees upon the same footing as other Universities, and the Government College was given more of the character of a college in an English University than it had previously possessed The popularity of the College was now established, and a couple of years later the number of students had reached 128, and Mr

Ibbetson, officiating Director of Public Instruction, fried to save the staff from being again overwhelmed, by prohibiting further admissions This, however, was found impracticable, and the numbers increased until in 1886 they reached 248 There is a Boarding house connected with the College which was completed in In 1891, the Presbyterian Church in the College grounds was acquired and transformed into a gymnasium, and playing fields are being provided in the fringe of land around the College, athletic games now forming a part of the curricu-The picturesque building in which the College is at present located is situated on an eminence to the east of the District Kutcherry and north of the public gardens The structure is in the Gothic style with a large central clock tower It contains accommodation for the College, large examination and lecture hall, and laboratories for Physics, Chemistry, Botany and Zoology There is also a good Gymnasium The College has recently taken over from the Medical College the preliminary teaching of Science, Chemis try, Physics, Botany and Zoology

Mr SAMUEL ROBSON, Principal, Government College, Lahore



Mr S ROBSON

was born in 1853, in Scotland, and educated at the University of Edin-

burgh He obtained Honours in Classical literature in 1877 In the following year herentered the service of Government He at first joined the Presidency College, Calcutta, but was soon transferred to Patna He next served at Hooghly, and again at Patna until 1897, when he was appointed Principal of the Dacca College After a year's service at that centre, he was appointed to Lahore, as Principal of the Government College, which post he still holds

Rev PSACK HYRAPIET JACOB, until recently, head of the Armenian Church, Calcutta, was born in 1844 at Julfa, Ispahan, Persia, and educated at All Saints' Cathedral in Julfa Mr Jacob was for a quarter of a century, prior to ordination, teacher at St Catherine's Girls' School and other national schools at his native place. He was also English tutor to the same institutions, and served in the choir of the schools In 1883 he took holy orders, and was ordained by the Most Reverend Gregories, Prelate of the Armenians in Persia and India, and was placed in charge of St Mary's Church in the parish of Julfa He became a member of the Holy Synod of the Julfa Cathedral, and remained in charge of the schools and ecclesiastical printing press Shortly after his ordination he was for a short time in charge of the Armenian Church at Bushire in the Persian Gulf, and on his return to Julfa took up the same duties as before In 1886 he was sent to India and was appointed a junior priest of the Armenian Church of Nazareth at Calcutta, which appointment he held for about five years He was then appointed to a mission by his Diocesan Bishop to tour India and Burma for the purpose of collecting contributions for a new Semi-nary for Girls and Boys at Julfa He returned to Persia, after having accomplished this mission, in 1901, and took up his former functions at Julfa In addition to these duties, he was in charge of the Vestry of the Cathedral Convent and the Treasury, and was the teacher of religion at the Girls and Boys' Schools, also Secretary of St Catherine's Nunnery for some years His duties included the inspection of

sident of the Anglo Indian Association which represents domiciled Europeans and their descendants Mr Madge is an Honoiaiy Magistrate, and Justice of the Peace of Calcutta, a Member of the Christian Burial Board, a Member of the Committee of the Hospital Nuising Institution, a Councillor of the Women's Friendly Society and a Government nominated Commissioner of the Calcutta Municipal Corporation

Rev ARTHUR HENRY EWING, Ph D, DD, Principal of the Allaha bad Christian College (Presbyterian, U S A), Allahabad, was born at Saltsburg, Indiana County, Pa, USA in the year 1864 He was educated at Saltsburg and Elder's Ridge Academies, and graduated from Washington and Jefferson's College, Washington, Pa in 1887, and from the Western Theological Seminary, Alleghany City, Pa, in 1890 In September 1890 Mr Ewing proceeded to India as a missionary in connection with the American Pres byterian Church He was first stationed at Ludhiana, Punjab, where he remained for eight years, devoting himself to educational, literary, and general mission work In 1899 he returned to America and remained as a resident graduate student at the John Hopkin's University, Baltimore, for two years His principal subject was Sanskrit, under the guidance of Professor M Bloomfield, and subsidiary subjects, Philosophy and Arabic, under Profs E H Griffin and Paul Haupt In the year 1901 Dr Ewing returned to India and was stationed at Allahabad for special educational work The College at Allahabad was started in 1902 and Dr Ewing has remained in charge ever since He has a good deal of administrative work to do in the North India Mission of the American Presbyterian Church He is Honorary Secretary of the North India Tract Society, and Treasurer of the North India Mission The Mission at Allahabad was founded in the year 1836, and has three centres, Katra, Jumna, and the City The first Mission Press in Northern India was started at Katra There is a missionary's residence at Katra, also a Church, a Christian village, the Mission Press and the Mary Wana

maker Christian Girls' High School, a beautiful building worth half a lakh of rupees, built by the Hon John Wanamaker of Philadelphia There are three missionary resi dences at the Jumna, a Church, a High School, a Christian Boys' Boarding Department and the Allahabad Christian College In the city there is a Women's Hospital and a large church The Mission took over from the East India Company its college work at All thabad in 1846, and conducted the College for some years, but after the Indian Mutiny, continued the establishment only as a High School In 1853 the Mission bought the Court House at the Jumna, and



Rev ARTHUR H EWING

converted it into a High School building The Christian Girls' School was founded at the Jumna in the year 1885, and removed to Katra in 1904

The Allahabad Christian College was started in 1902 Since 1903 there have been added a Laboratory, a Hostel, the Princeton Building, a Workshop and a Power House, built by the Mission, and two bungalows, purchased from the East Indian Railway Co The College has an Electrical Engineering Course which covers three years after the B Intermediate Course of the Allahabad University A Manual Training Department is being started in connection with

the High School This Department offers shopwork and drawing, along with the major literary or "book" subjects of the School Course

The GOVERNMENT COLLEGE. Lahore This Institution vas opened on 1st January 1864, under the temporary charge of Mr C W Alexander, at that time Inspector of the Lahore Circle The building in which the College vas located was that known as Maharaja Dhian Singh's "haveli," within the precincts of the city of Lahore At the commencement there were only seven students, and for a time the progress of the institution vas very slow, and great pains and special exertions on the part of Government have been required to raise it to its present status Of the first seven students all matriculated at the Calcutta University To add stability to the College it was proposed to affiliate it to the Calcutta Arts College Mr Alexander was succeeded after three months by Mr W H Crank from La Martinière College, Lucknow In the same year the authorities decided to offer the Principalship to Dr G W Leitner a distinguished Oriental scholar and Professor of Arabic and Mahomedan Law at King's College London Dr Leitner accepted the offer and on arriving in India took charge of the institution which his care was to foster into vigorous life later on His first step was to separate the College from the Lahore Zillah School by providing for the former in separate rooms of the building When Dr Leitner assumed charge there were only sixteen students at the College Dr Leitner set himself assiduously to popularise the institution He formed many acquaintances among the Indian gentry of Lahore, who welcomed him to their circle on account of his comprehensive knowledge and sympathy He shortly founded a society " for the diffusion of useful knowledge and for the revival of Oriental learning," with a library and reading room attached Dr Leitner, however, had important matters to claim his attention and having to leave for Dardistan for the purpose of linguistic investigations, the progress of the College was not maintained The paucity of the remaining staff made ade-

which he raised from his fellowcountrymen Having changed his colours, Claud Martin was true to his new allegance as he had been to his old service. But the French company he rased was unreliable, and desp te his efforts, many deserted. The company was finally disbanded and Martin, in 1765, was placed in command of a squadron of cavalry When Shup ud Dow in Oudh lah, Nawah Vizier of Oudh, decided, in 1765, to come to terms with the English, whose inveterate enemy he had been, he applied for and obtained the services of Martin as superintendent of his park of artil lery and arsenal, Martin retaining his rank in the English service and received his promotion in due course In this way he finally attrined the 17nk of General services to the Nawab Vizer of Oudh were mestimable. He en abled him to retain the friendship of the English, and being a strong man in troublous times, he be friended the merchants and brukers of the State, who placed themselves and their property under his protection. He entered into financial operations, and amassed a very large fortune, wherewith at his death he was enabled to endow the splendid institutions which have perpetuated his name. The building which is now occupied by the Lucknow Martin ere Col lege, was built as a palace for his own occupation by General Martin It partakes of the nature of a fortiess as well as of a residence, as fitted those far-off turbulent times But he did not occupy it during his lifetime, although he was buried there His death occurred shortly after the siege of Seingapatam and downfall of Tippoo Sultan where, as a Company's officer, he was present With gient forethought General Martin had provided that his remains should be interred in the palace which is now the Luck now Martin ere, thus securing the building from mole-tation, for the Mahomedan Government respected tombs where they respected no thing else

The above is a slight sketch of the career of the man to whom education in modern India is under such an immense obligation. His will provided that his immense

possessions should be realized and utilized in the founding of the schools which now bear his name, but there followed apparently interminable litigation over the meaning of the provisions, which long delayed the fru tion of his benevolent schemes It was not till 1845 nearly half a century after General Martin's death that a decree of the Supreme Court set free the funds which had been accumulating, and gave effect to the will which provided for the founding of "a school for children and men to teach them the English language and religion". At the same time, the beautiful palace on the Gumti, at Lucknow, which had remained untenanted for many



The late General Claup Martin

years, was handed over for the pur pose of a school building. At its foundation, the school gave small promise of developing into the important institution it has since become Under its first Principal, Mr John Newmarch there were only fifty pupils in residence and before the Mutiny it did no great things. On the outbreak of the Muting and the siege of the Lucknow Residency the Wirtingere building was abandoned Mutancers broke in and rifled General Martin's tomb, in search of treasure, but his remains were afterwards recovered and rumterred in the same tomb. The Martimiere boxs were transferred to the Residency, in the defence

of which the elder lads took part After the Mutany was quelled, the school was reopened and for fifty vears has been increasing in importance the sound education imput at the institution leading to the success of somany pupils in after life that its reputation as a great educational centre has become known far and wide. At present there are about two hundred and fifts pup is seen by their trubing it the Murtinese Of these, eighty are on the foundation and ire entirely provided for by the fund left by General Wutin The palac and grounds left by General Martin have been adapted to the purpose of a residential college with great skill. The building is a magnitic cent one and built for the needs of those unsettled times it par takes of the nature of a fortics The central tower is constructed strongly, for purposes of defence its walls are of great thickness the roof is bomb proof and loop holed bastions are provided. There are subterrancous chambers provided for protection from the heat in the summer and above these use a series of flats. In general plan, the building consists of two some circular wings extending from the central tower and from these again extend long unnexes con trining dormitories class rooms, masters quarters etc. The Ludd ings extend over a quarter of a mile in length. The large hall in the centre tower, originally de-gn ed as a banqueting hall, as is ear denced by the decorations has now been converted into a chapel liting of any attention between the tell strined-glass windows which were given by past and present Martinere boys on the occasion of the Jubilce of the school in 1925 1 marble floor for the chancel and the carved screen, which sep rate it from the library, were presented at the same time. A hand some fight of steps extends the whole length of the bulling on the East front. On the side too is the artificial lake in the middle of which a column as erected to the memory of General Mortin, by his adopted son. This call, " is over 100 feec in height forms a lindmark for miles are a. The banks of de late conserve with shade tre

the Industrial School at the same convent and supervision of the convent management In 1904 when the Archbishop of Persia (Sahak Ayatian) intending to visit Shiraz, Bushire, and all other dioceses in India in connection with his Holy See, set out on his tour he took with him the Rev Jacob as his Chaplain and Interpreter His Grace had a very successful tour, being warmly received by Lord Lamington, Governor of Bombay, the Lord Bishop of Bombay, and at Calcutta by Lord Curzon, then Viceroy of India Before leaving India, his Grace the Archbishop placed the Rev Jacob in charge of the Armenian Church at Calcutta and here he laboured until the end of 1907 Besides his pastoral duties, he has taken great interest in the literary side of his work In 1886 he translated a book on Holy Week services, for the convenience of the non-Armenian speaking members of his community has also done very useful work in translating the Armenian Cate chism and Armenian Services and Hymns into English, and modernising ancient musical notation for the use of the Anglicised Armenian community at Calcutta In this he has been very ably assisted by Miss Amy Apcar He has also published valuable and interesting historical sketches of the Armenian Church

The J N PETIL INSTITUTE, Hornby Road, Fort, Bombay This Library was first started on the 1st April, 1856, in a small 100m, by a few Parsee students, among whom may be mentioned the late Mr J N Tata It was then called "The Fort Improvement Library" On the 4th December, 1857, at a meeting held at the Town Hall under the Presidentship of the late Dr Fraser, a regular Committee was appointed, which included such per sonages as the late Mr Now10jee Furdoonji, and Dr Narayan Daji On the 23rd June, 1858, Dr Haines, the then Educational Inspector, arranged that the Library should be supplied with free gifts of books, etc., from the Government In September, 1866, the Library was named "The Fort Reading Room and Library' In 1875 it was registered under Act XXI of 1860 (being the Act for the

Registration of Literary, Scientific and Charitable Societies) In 1891 the late Mi Nesserwanjee Manochjee Petit endowed it with a sum of Rs 25,000 for perpetuating the memory of his only son, Jam setjee, who died in March, 1888, and who was a Life Member and Direct or of the Library. In recognition of this gift, the Institution was named "The Jimsetjee Nesser wanjee Petit Fort Reading Room and Library"

Bai Dinbai Nesserwanji Petit, mother of Mi Jamsetjice, subscipantly made a munificent gift of a building costing Rs 2,50,000 for the use of the Librait, and by a resolution dated 17th of March,



Mi R M PATELL

1898, the Institute was designated "The Jamsetjee Nesserwanjee Petit Institute" The building is invest ed in four trustees, and, together with other eight members, two nominated by the trustees and six elected by the general body of members, they form a Committee of Management, having the holder of the Petit Baronetcy as the The total funds of the President Institute (exclusive of the Build ing Reserve Fund) amount to Rs 45,000 The total number of newspapers and periodicals sub scribed for is two hundred, and the sum of Rs 10,000 is expended annually on the subscriptions to these papers and the purchase of

new books The Library is fast becoming one of the most popular institutions of its kind in Bombay, attracting to itself a large number of members. This number has steadily increased from year to year, and since 1896 it has risen from 1,150 to 2,600.

Ia MARTINIÈRE COLLEGE. Lucknow Among the many remarkable men from the West who laid the foundation of European domination in India, there is none who is better remembered to day thin General Claud Mirtin, the Founder of the Martiniere Institu tions at Lucknow Calcutta and Lyons Born of very humble pa rents, at I yous, in France by his own exertions he obtained a I beral education which stood him in good stend in his after career. Endow ed by nature with a strong military bent, he sailed for India in the verr 1751, and on arrival at Pondicherry (then, as now, the French capital in India), he entered the ranks of the army as a dragoon in the Governor's body guard. He served with distinction in the ten years' war with the English, being present at the first campaigns, which were favourable to the French arms He served in the Regiment of Lor raine, the most distinguished in the French service, and was promoted He was present at the taking of Gudalur and Fort St David, in the capture of Blacktown, and in the siege of Fort St George at Madras When the tide of victory turned and Sr Evre Coote struck a fatal blow to French aspirations in India at the battle of Wande wash, where the French Generals, Lally and Bussy, were grievously defeated, Claud Maitin remained faithful to his service, when so many deserted He was one of the prisoners at the unconditional suriender of Pondicherry, which took place in 1761 But the French power, totally unable to make head against the English in India, waned, and it was found useless to continue the struggle for mastery which had finally passed to their rivals Peace fol lowed, and Claud Martin, his duty to his country honourably accomplished, joined the service of the Honourable East India Company in the command of a company

Besides the educational and physical advantages offered by residence at La Martiniere College, there are many material advantages to be gained by successful students The scholarships awarded in the institu tion are greater in number and value than those of any other institution in India They range from Rs 50 to Rs 60 per month in value, tenable for the whole three years' course at Roorkee, and there are others, of varying smaller amounts They are not available, however, for any boy who takes a place lower than fifth on the list, or for residents of less than three years standing An additional sum of Rs 88,300 was recently set aside by the trustees for providing additional scholar-ships, and the school is now very handsomely provided in this res Turning out a particularly virile class of young men, La Martimère has had great success in the engineering department The course at the school is specially adapted to fit in with the Roorkee curriculum, and it has passed 285 boys into Roorkee, 159 into the Engineer Department, and 126 into the Upper Subordinate 'Civil Engi neer) Department On the Eng lish Entrance list the school has taken the highest place seventeen It has won nine times the Council of India prize of Rs 1,000, for general efficiency, also twenty one gold medals and many silver medals in the final examinations for the Public Works Department The Martinière boys have been consis tently successful at these examina tions, though pitted against B A's and M A's from the Indian Universities In one year they took the nine highest places on the lists, and on several other occasions the Martinière has supplied the six lead ing candidates The general excel lence of the Martinière education, added to Roorkee training, ensures employment for even those exhibitioners who fail to secure the guaran Government appointments In this department of engineering, the school maintains a prominent position among Indian institutions

Mr T G SYKES, BA, Principal, La Martimere College, Lucknow, was born at Holyhead in 1844, and was educated at Woodhouse Grove School (where it may be mentioned the Right Hon'ble Sir Henry Fowler, GCSI, late Secretary of State for India, and Sir Lawson Walton, KC, the late Attorney General, were educated) and the London Uni versity, where he took his degree with honours Mr Sykes obtained his experience as a master at English and Indian schools, before he was appointed head master of the Lucknow Martiniere Subsequently, he obtained his present appoint ment of Principal to the same institution on 1st March 1880 For the past twenty seven years Mr Sykes has entirely identified himself with the Martinière College, and the whole system, as it at present stands, is a tribute to his admirable powers



Mi T G SYKES

of administration and organiza Mr Sykes's energies have tion brought the College to the fore front in India He has imbued the institution with the spirit of an English public school, with the happiest results Like all great happiest results Like all great head masters, Mr Sykes is more than a mere teacher and disciplin-He has the faculty that enables him to bring to the surface all that is best in the nature of a boy committed to his care, and to edu cate his charges into men, in a wider sense than that implied by the mere acquisition of scholastic knowledge In 1905, the Lucknow Martiniere had the honour of a visit from Lord Curzon, then Viceroy of India, and on

that occasion His Excellency complimented Mr Sykes on his long and successful life work, which, he added, was known and noted by the Government of India Mr Sykes is still in the prime of vigour, notwith standing his long and arduous ser vices, and gives every evidence of a long continuance of these abilities and faculties that have made the Lucknow Martiniere the leading school of India

The other masters of La Martiniere College are TR Read, MA, Head Master, AE Pierpoint, BSC, First Assistant Master, CLS Garnett, BA, Second Assistant Master, E Clarke, Inter BA, Third Assistant Master, JSpence, Fourth Assistant Master, TGGIII, TDe Gruyther, HLyon, EGCooper, Music and Singing Masters The Trustees are Sifh HRisley, CSI, KCIE, Secretary to the Government of India in the Home Department, and CHKesteven, Esq, Solicitor to the Government of India The Hon'ble Sir John Hewett, KCSI, CIE, Lieutenant-Governor, United Provinces of Agra and Oudh, is the Visitor The Local Committee of Governors consists of Major General Sir E Locke Elliot, KCB, DSO, Ross Scott, Esq, AL Saunders, Esq, SHButler, CIE, TGSykes, exofficio Member and Secretary

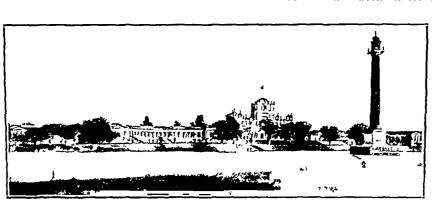
La MARTINIÈRE GIRLS' HIGH SCHOOL, Lucknow This school, which is the companion institution of La Martiniere College at Lucknow, though not originally pro vided for in the will of the founder, General Martin, came into exist ence in consequence of one of its General Martin had provisions bequeathed certain monies to be set apart, and the income therefrom used for the release of poor debtors in India In 1865 it was found that, in consequence of the alteration in the law regarding the imprisonment of debtors, a large sum of money had accumulated, and as the original purpose of the fund no longer existed, the Trustees and Governors of the General Martin Fund decided to devote a portion of these accumulations to the establishment of a Girls' School at Lucknow At that time there existed a small girls' school at Lucknow, known as Colonel Abbott's School", which

picturesque environment in which the fortunate boys of La Martinière College pursue their studies The education afforded is liberal, and equal to that of the best English schools This is ensured by the excellent personnel of the masters appointed, a large number of whom have English degrees, and have been trained in the best tra ditions of English scholasticism English methods and discipline are preserved throughout, and the English monitorial system has been implanted on Lucknow soil, and under the careful supervision of the staff, has been attended with the happiest results For the monitorial staff, rooms for private study out of school hours have been allotted in a block of buildings, situated in the same compound as the house of the first assistant

master Judged by results, the Martinière has done splendid and lasting work Martı mère boys are found in every branch of enterprise ın India and elsewhere, so well have they pushed themselves to the front Great numbers of them have passed into the public service

through the Thomason Engineering College at Roorkee, which has almost been turned into a preserve for Martinière trained young men To take the record of one batch of class fellows, whose records were investigated, one is now Chief Engineer of Western Australia, another, a Lieutenant-Colonel in the Indian Medical Service, a third, Under Secretary in the Public Works Department of an Indian Province, a fourth, Secretary of Irrigation, and decorated with the C I E, four more are Executive Engineers in the Public Works Department, and others of the same class have been traced to various honourable positions in law, medicine and com merce This is but a specimen of the general success in later life which attends the youths trained

at this remarkable institution. The staff of the College, both teaching and subordinate, is thoroughly complete Out of a dozen masters five have English degrees, and the rest have certificates which proclum their thorough efficiency There is a resident assist int surgeon and a trained nurse. A senior and junior sergeant are in charge of the food and clothing arrangements, and two matrons are in charge of the dor mitories Γ hc servants, who amount to a small army, reside in a village on the estate, presided over by a daroga, who is a lineal descendant of General Martin's man าffairs Notwithstanding the site of the College is on the plains, the health of the inmates has been uniformly good, a fact due, no doubt, to the excellent arrange ments All the dormitories are on



LA MARTINIÈRE COLLEGE, LUCKNOW

the upper floors and the ventilation is perfect throughout Further, the greatest attention is paid to physical culture, the finest method of ward ing off disease There is a fine swimming bath, 85 feet in length, on the premises, and swimming is systematically taught and daily practised A smaller bath, 43 feet in length, is provided for the novices and others unable to swim, the depth of this is only Naturally, emulation feet to be admitted to the full sized bath makes every Martinière boy a swim A very complete gymnasium is also attached to the school, replete with every appliance, airy and well ventilated By a wise provision, gymnastics form part of the curri culum of the school, and the exercises are carried on under strict

supervision, and with corresponding benefit Sports of all kinds are made a great feature of La Martin ère school life Cricket and football are systematically practised, and the College can put redoubtable teams in the field in both these sports The school grounds for cricket, football, hockey, and tennis, ire suitably laid out, and every en couragement is offered to the boys to perfect themselves in games to which much good, in the invigoration of body and mind may be ascribed. The College has a most efficient Volunteer cadet corps Service is compulsory on every boy of sufficient age. Drill and truining are parts of the educational discipline of a Martinicre boy This system, the desirability of which is only now being recognized in England, has been in force for thirty years at La Marti-

The nière boys are gra duallyeducated into becoming efficient rifle men Practice is at first given with the Morris tube in the covered shoot ing gallery, and subsequently with the rifle on the range situated on the Martinière grounds Every Martinière boy

is taught the traditions of his school, and the example of the lads who held the "Martinière post" at the Lucknow Residency, serves to excite military emulation and en sures the efficiency of the corps The utmost care is lavished on the health of the boys In 1892, an outbreak of enteric fever caused the governors to investigate, with the result that they found it expedient to establish a cowhouse and dairy, with English machinery, refrigerators, and separators, for the proper control of the milk supply Enteric was thus entirely stamped out, and sickness of any sort is now rate The civil surgeon is in charge of the health of the school, and a commodious hospital, with resident assistant surgeon and nurse, is provided in the grounds

a member of the British Medical Association, and a Fellow of the British Institute of Public Health, and has made several contributions to medical literature

The MEERUT COLLEGE United Provinces, was established in 1892 with the principal object of imparting education to the natives of the district. It had for some veris, a very chequered careet, but under the new scheme recently arrived at with Government, it bads fair to become one of the important colleges of Northern India. In addition to a Government grant and its endowments, it receives large grants from the District Boards of the Division, and the Meerut Municipality.

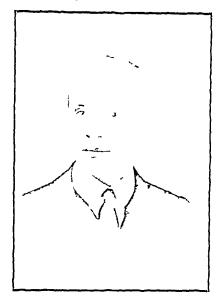
The crection of the new College is now in progress, from plans by W Gunnell Wood, Esq P W D, and the old building will be converted into a set of up-to date labor ntories for science. The grounds ne extensive, occupying nearly 40 acres, which will be laid out as a large park with portions reserved for tennis, cricket, hockey, and other There are fine boardinghouses for both Hindus and Ma homedans, a feature of which is the religious and moral instruction conveyed by the superintendents, who are the senior Pundit and Moulvi, respectively

The College prepares students for the B A, B Sc and LL B degrees of the Allahabad University

In the grounds there stands the new Government High School, one of the "model" schools of the Province, to which a member of the Imperial Educational Service is to be appointed as head master

Mr WILLIAM JESSE (Captain, Lucknow Volunteer Rifles), Principal of the Meerut College, was born in England in 1870, and was educated at Hereford and Selwyn College, Cambridge, where he took his B A degree in Natural Science in 1891, and his M A in 1901 For three years he served as one of the Senioi Science and Modern Language masters in Bedford Modein School, and came to India in 1894 as first assistant master at the La Martin iere College, Lucknow, this post he held till 1903, when he resigned to accept the appointment of Piin cipal of the Meerut College, which he has succeeded in rusing out of the moribund condition in which it then was

In literature, he has contributed a considerable number of papers on Indian Orinthology to a mous Indian and English journals, and has also edited "Morris" Geometrical Drawing" for Indian students



Mr Willim Jesse

Mr Jesse is a Fellow of the Alla hibad University, and of the Zoo log cal Society of London he is a member of the British Ornitholog ical Union, of the Bombay Natural History Soc ety, and of the Incolporated Soc ety of Authors, London He is a Captain in the Lucknow Volunteer Rifles, and while at Lucknow Commanded the senior La Mai timere Company, which in 1857 held the Martiniere Post during the famous siege of the Residency

The law Dr MAHENDRA LAL SIRCAR CIL, ND, DL, was boin in Paikpain (Howrth, Bengal), on the 2nd November 1833 He comes from the famous Sicar family of Anndi (Hughli) His father, Rum Tarak, had only two sons, the eldest being Mahendra I al Having lost both his prients at an early age, he was brought up in his maternal uncle's house at Nebutola, Calcutta He obtained the rudiments of his Figlish education under the celebrated lume teacher, Thakur Das De, generally

known as Master Mahasaya At the age of seven he was admitted into the Hue School, and in 1850 he ob taned a Junior Scholarship, andth n studied in the Hindu (Presidency) College, where he soon distinguish ed himself He entered the Medical College in 1855, and his career there was a bulliant one, he was first in the M D examination, 1863 Before the Bengal Branch of the Butish Medical Association, of which he was Secretary and Vice Pres dent, he early denounced Homocopathy as a system of quackers Subsequently his opinions changed and he read an address at the fourth annual meeting of the Association in 1867, in which he alluded to reveral cures homeopath c method of treatment and uiged upon the profession the necessity of recognizing it as one of the therapeutic systems For this declaration of faith in homeopathy he was outcasted He started the Calcutta Journal of Medicine in 1868 to ventilate his own views in medicine, and he conducted it to the end of his life

In August 1869, he advocated in his journal the establishment of a National Institution for the Cul-



The late Dr M L Sircar, CIE, MD, DL

tivation of Science The article was well received by the press and subscriptions began to flow in In

had been founded in 1850 was taken over and formed the nucleus of the existing institution At first the school was located in the Moti Mihil, i collection of buildings on the banks of the Gum ti but in 1871 it was transferred to the Khuishaed Munzil, on the opposite bank of the river. In 1876, the local Government made the Trustees a munificent gift of the buildings of the Khurshaed Munzil, and in 1888 supplemented this donation with i large grant of adjoining land Γ hc school is thus well isolated The original building of the Khurshaed Munzil at the time of the Mutiny was large and two storeyed, sur rounded by a deep moat. It was occupied by the rebels at the siege of the Lucknow Residency, but was re captured, after six hours' haid fighting, on 17th November 1857 A pillar in the present compound of the Girls' School commemorates the spot where those famous heroes. Generals Outram, Havelock, and Su Colin Campbell, met, on the day of the storming of the Khurshaed Munzil, to arrange future plans A new building in addition has been erected by the Trustees This is a handsome modern edifice provided with very fine dormitories on the upper floor, the lower floor being devoted to class rooms and music The music tooms are iso rooms The old and new buildings are connected by a covered way which affords safe passage in the rains and hot weather, as well as a delightful playground for the girls The education afforded to the girl students is first class in every res pect They are trained for entrance into all the professions that are open to women Large numbers of the students enter the medical profession or qualify as trained nurses, and some proceed to England to study for higher nurses, and examinations Many also qualify as teachers The report of the Ins pector of Schools supports the high reputation the institution has gained "It is an admirable school, admir ably conducted," says the report
"It has had a thoroughly successful year, and in the last public examina tions did extremely well It passed all its High School candidates, and passed six out of nine in the Middle School Examination, with three in The staff have the first division

worked splendidly, and deserve great credit for bringing on all the a girls so well. But while the exammations have been worked for the wider interests of education have also been kept well in view. It is noteworthat that the place of, as well as the mental, welfare of the gulls is thoroughly taken eare of and there are no health er, happer, or more intelligent children in the country than the girls of the Lucknow Martiniere

The MEDICAL SCHOOL Agrawas first opened in the ver 1854, by James Thom ison, who was at that time Licuten int Governor of the North-West Provinces At the



M yor G T BIRDWOOD

outset, the institution consisted merely of a small dispensary with a few students In the year 1890 large surgical wards were added and, later on, the Dufferin Hospital was also attached In the year 1904 the new Lady Lyall Hospital for Women was opened, and the old Dufferin Hospital was then conver ted into an Ophthalmic Hospital At present, the Lady Lyall Hospital has accommodation for 70 patients There are 12 jurdah wards for native ladies of the better class, and 4 wards for Europeans There is also a school for female hospital assistants, of whom there are at present seventy, the majority of

them being accommodated in the Government Boarding House Ophthalmic Ho pital has 100 beds and over 900 operation for extinct us unwilly perform d and over 20 000 out patients are treated The Mide Medical School has extensay grounds and buildings, a fine dissecting room a marble floored the tree is practed pathological Liberatory and a fine examination There we 250 students it present on the rolls, and they receive the construction through the me lium of lectures given in the vernicular As most of the students have now some knowledge of English, it is hoped that before long the lectures will be delivered in this linguinge The staff consists of a Principal and seven Assist int Surgeons, of Inglish and Indian University qualifications In the Out door Pitient Department from two to three hundred put ents are treated duly, and from 70 to 80 surgical cases are constantly under treatment There is a Lurope in ward with accommodation for six I property, indeight privite wards for the better class of natives. The Principal of the School is Major Gordon Travers Birdwood MA, MD (Camb)
MRCS, LRCP, DPH, IMS He was born in the year 1867 it Widhwin in India, ind was educated at Chiton and St. Peter's College, Cambridge He afterwards joined Guy's Hospit il, I ondon He was Clinical Assistant at Guy's Hos pital, Westminster Ophthalmic Hospital, and Great Ormond Street Hospital for Children After passing his eximinations he entered the Indian Medical Service in 1893 and was posted on field service with the Abor Expedition the same year, when his services were specially mentioned in despatches In the Waziristan Expedition of 1894 he received a Medal and Clasp, and in the Tirah Expedition of 1897 he received a Medal and two Clasps He entered the Civil Department in 1898, and was appointed successively Civil Surgeon of Ghazipur, Muttra and Agra, in the United Provinces He also acted as a Deputy Sanitary Commissioner for a short period, and was a member of the "Malaria" Commission at Nagpur in the year 1901 At present he is a Civil Surgeon at Agra and the Principal of the Agra Medical School He is

ly revered and beloved by all old Manorites, did great things for Manor House. But though he sleeps among the mountains in far Chakrata. "Doog is School," that standing memorial of his zeal and of his love, will not let him die, and Manorites shall ever cherish his memory as dear to them as then very heart strings.

The present worthy Principal the Very Rev M. Haverty, o.s.p. resembles his illustrious predecessor in many respects, but the living are enemies to praise, so we refrain

Perched on an isolated spur, midway between Rupur, the gate to Mussooric and Mussoorie Station, the climate of which is perfect, the College is for educational purposes, ideally situated Remote from "the madding crowd's ignoble strife," the student can "sit and think" The expressions recreation at peace grounds in the College estate, and the number and variety of the games in dulged in, gu irantee the desideratum mens sana in corpore sano The College can comfortably accommodate about 200 boarders, and the average attendance during the acade mic veir is rarely below these figures besides several day scholars whose friends reside in the station

As it would be tedious to enter minutiæ concerning the into College structure, a few general atems must suffice. Each of the various departments has its allotted study-hall and class rooms large airy dormitories accommodate the boarders, many of the senior students enjoy scharate rooms. The Aula Maxima, which serves as an ambulacrum during the hot and runy sersons, has a stage ittached to it, where the College theatricals are held, and where from time to time lectures and entertainments are given by members of the staff, and by persons visiting Mussoorie As this is but a crude sketch, further information may be had in the College prospectuses, and in the Manor House Xmas Annual which is composed, for the most part, by old Manorites, and by the students themselves

The staff, which is large and thoroughly efficient, is composed of men most of whom are directly out from Home. Men that graduate in Europe conduct the College special departments

For in Indian cricer, St. George's College offers to the public all that may be required. It is an old-established school, and has given proof of being a first class education al institution. The curriculum is arranged so as to include the requirements of the various ages, from the toddler of four summers to the voung gentleman out of his teens. Students are prepared for Government standards, Forest, Survey, Police, Opium, F. A. and the Entrances of the Calcutta and the Allahabad Universities, Superior Grade Accounts, Fourth Grade Accounts, and the Roorkee Upper Subordinate and Engineering Examinations. Students are also prepared



Rev M HAVIRTY

for the Oxford and Cambridge Entrances, the Dublin University Entrance, the City and Guild of London Technical College Entrance Examination, Entrance, Royal College of Surgeons, London, Edin burgh and Dublin, Superior Grade Police, Home Examinations, Army Preliminary, University, and Preparatory Civil Service Examinations

These advantages are open to European students of every denomination, in consideration of a moderate payment. The diet of the College is very good, and there is plenty of it.

Every attention is paid to the morals of the pupils Everywhere the mottoes, "virtus et labor"

und "labor omnia vincit." stare them in the face, and proclaim the sacredness of virtue and of manly toil The aim of the institution is to so fashion and mould the charac ters of its numerous alumni that they may hereafter become good Christians and useful members of society The means resorted to, to secure these noble ends is not severity, but kindness The religion of the Protestant pupils is not interfered with They say their prayers apart from the Catholic pupils

The hygiene of the College is scrupulously attended to, and, as a result, the annual medical reports of the doctor in charge—usually the Civil Surgeon of the station—are most satisfactory. Two qualified matrons are always in attendance to administer to the comforts of all, and to see that the household affairs are properly attended to in the various departments.

The games include cricket, football, hockey, and tennis, and it is notorious that St George's secures the lion's share at the annual athletic sports held in Mussoorie Volunteering is a specialty with Manorites, and the results up to date may compare favourably with those of any other institution in India For instance, St George's has secured the All India Cadet Challenge Cup, which was competed for, for the first time in 1905

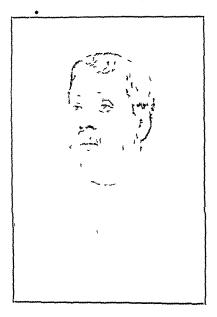
It would be difficult to estimate the value of the work done by St George's College for the Anglo Indian But he appreciates the worth of its labours in his behalf, and its brilliant results, and always loves to style lumself "An old Manorite"

The College, which is affiliated to the Calcutta and Allahabad Universities, receives annually a large Government grant

It reopens 1st March (10th January for College Department) and closes on the 15th December each year

Rev EDWARD MONTAGU WHEELER MA, was born at Cawnpore in 1868, and is a grandson of the late Rev Dr K M Banerjea, CIE, DL He was educated at La Martiniere Calcutta, St Paul's School, Darjeeling, and Presidency College, Calcutta, from which lastnamed College he graduated in 1886,

1876, with the voluntary help of Sir Richard Temple, the then Lieutenant Governor of Bengal, the in



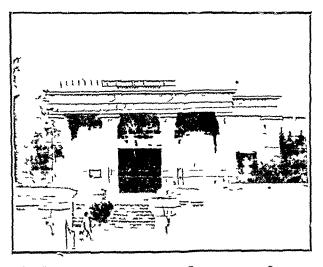
Dr A L SIRCAR, FCS

augural meeting took place, and the institution was called the Indian Association for the Cultivation of Science. He lectured on various scientific subjects regularly from its foundation till 1896, when his health broke down. Lord Ripon laid the foundation stone of the Lecture Hall in 1882. The Maha raja of Vizianagram bore the whole cost of the laboratory building, and the foundation stone of the

Vizianagram Laboratory was laid by Lord Lans downe in 1890 The Association is now a well establish ed and well equipped ins titution It has great facilities for ic search work Ever since its foundation it has had for its Patron the Viceroy and Governor-General of India. and as President, the Lieu

tenant Governor of Bengal The Association is on the lines of the Royal Institution of England and is a deserving institution. It has been doing real work. Since the death of Di Sucai, the Founder Secretary, the institution has had for its secretary Di Amrita Lal Sucar who, like his father, has been devoting his whole time, attention, and energy for the furtherance of its objects. Much practical work has been taken in hand by him, and an astronomical observatory is under construction Sa William Ramsay visited the Association in 1901, and more recently it was visited by Di M W Travers, Direc tor of the Tata Institute These gentlemen expressed their high opinion regarding the working of the institution

The late Dr Sucar was a Fellow of the Calcutta University, Honorary Magistrate, 1877 1902, Sheriff of Calcutta, 1887, Member of the Bengal Legislative Council, 1887 1893 He was the first Indian medical man who obtained these high places of honour He was a Commissioner of the Calcutta Coiporation for many years, and his services on the Municipal Board as a medical man were invaluable. He was made a Doctor of Law in 1898 For ten successive years he was a member of the Syndicate, and tor four successive years, President of the Faculty of Aits He was a member of the Council of the Asiatic Society and a Trustee of



THE INDIAN ASSOCIATION FOR THE CULTINATION OF SCIENCE

the Indian Museum He was created a C I E in 1883, in recognition of his services to science. He bore the entire cost of the building of the I oper Asylum at Baidvanath Deoghui, which goes by the rame of his wife is Raj Kuman I oper Asylum.

The late Dr Sirear was an cloquent speaker He was m idvanced Liberal, but never viru att icked lently Government measures. He had a firm belief in the Divine Government of the world. His life had been one of consistent toll for science and his fellow countrymen. His treatises on Cholera and Plague are among the best books on the subjects writings, scientific and medical, appeared in his own Journal He died on the 23rd February 1904

St GEORGE'S COLLEGE, Manor House, Mussoorie, U P, India Now one of the largest and most important of the Colleges for Europeans in India, St George's College, Manor House, Mussoorie, like other unendowed institutions, took years to realize its present stately proportions Principal after Principal generously contributed his quota to the work of progress, and, thanks to their efforts, the College, although it is still far from being completed, can boast of being the largest educational establishment in Mussoorie The College, which is under the patronage of His Lordship the Most Reverend Dr Gentilli, oc, Archbishop of Agra, was founded as far back as 1854, by Bishop Persico The Rev Father Barry was the first Principal of Manor House, which was in those early days nothing more than a bungalow. The Capuchin Fathers, Brady, Mackin, Ildephonsus, Amelius, Lewis, Julius, and Doogan were the Principals, in order of time, down to as late as 1893, when the reins of government were transferred to the Patrician Brothers, under whose able guidance the Institution has prospered ever since

It would not be in keeping with the scope of this article to enter into details conceining the labours of the many Principals that have guided the destines of Manor House ever since its humble beginnings. We feel bound, however, to pay the last of the Capuchin Principals, the Rev James Doogan, more than a passing tribute. This great Irishman, deep-

The Upper India Chamber of Commerce.



The late Mr W B WISHART

The rise of Campore to its present position of importance as a great centre of manufacturing industries dates from nearly 50 years ago. Frade may be said to have had its beginnings in the interchange of merchandise between the North Western Provinces and the then independent kingdom of Oudh. The creation of a military cantonment led to a considerable extension of the town, and largely helped to augment the population by drawing to it the large train of followers eaterers and motley hangers on that invariably settle down in a garrison town.

But the chief factor which operated in developing Campore (itself in the midst of the fertile Ganges Jumna Doab) into a great centre for the collection and distribution of the trade of the North Western Provinces has been the establishment of through and unbroken railway communication with Bengal, and, later with Bombay. The result of the bridging of the Jumna at Allahabad was to divert to Campore the large traffic in country produce and imported goods, which had formerly been transported, through various towns on the Ganges and Jumna, to and from Mirzapore, then in its heyday of prosperity. Under these changed conditions, many of the wealthy merchants and mahajans of Mirzapore and other towns on the Ganges and Jumna opened out branch establishments at, or transferred their whole business to, Campore, they in turn being followed by a contingent of petty

dealers, craftsmen, tradesmen and the like who contribute so largely to the making up of big populations in Indian towns

A further stimulus was given to commercial progress by the strong demand that suddenly mose for cotton from countries other than the United States on the outbreak of the War of Secess on in that country and the blockading of the Southern poits, and out of which grew not only the present large export trade of India in cotton but the invaluable indegenous steam cotton waving and spinning industry

The mercantile and industrial importance of Cawa pole was subsequently greatly enhanced by the five great in lway systems which now converge on it—the East Indian Railway, O & R Railway and the Bengal and North Western Railway from the East and North, and the B B and C I and G I P Lines from the West and South

The manufacturing enterprise of Campore may be said to have been inaugurated by the election of the Government Harness and Saddlery Factory (now fulled by Major E S Foriestier Walker), this site has ing been se lected for its central position as a market for obtaining raw materials and for its abundant supply of cheap labour available in the large chamar population of the district

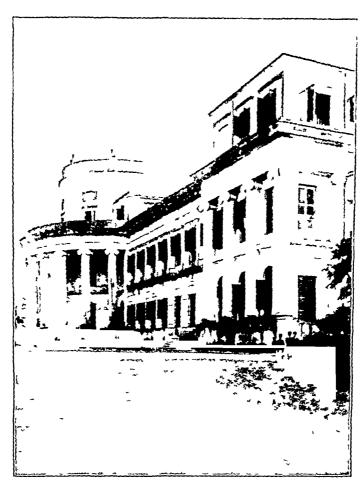
Its industries comprise leather manufactures cotton, wool, sugar, flour, brushes, cotton ginning, and engineering shops and foundries

obtaining a double first class. He proceeded to MA in 1889 obtaining a First Class and a University Gold Medial. In 1891, he won the Premehand Roychand Studentship of Cilcutti Eniversity, and was Mourt medialist for the year Hi was tutor of Bishop's College, Cilcutta, from 1886 to 1898, Assistant Professor of Philosophy at Hughli College from 1890 to 1802. Professor of English Lifet iture and Philosophy at Bangabasi College Cheutta, from 1899 to 1905, Head

Master of Calcutti Free School during 1905 and early in 1907 was appointed Principal of Krishieth College, Berhampore, Bengal, which post he still holds. He is a Municipal Commissioner of the Berhampore Municipal ty Pie dent of the local Water Work Committee and Honorary Organism of Credit Cooperative Societies in the Distinct of Murshidabal He has been a Fellow of Calcutta University since 1806 and was a member of the Provisional

Syndeate elected under the new University Regulations. He was ordened Deacon in 1598, and served for some time as Assistant Curate at St. Thomas & Church Tree School Street, Calcutta. He has also served a term as Honorary Majstrate at Scaldah. He acted for some time as Honorary Secretary of the Calcutta. University Teachers Association, which he helped to found

Mr. Wheeler marked his cousin Miss Trene Sells, in 1905



LA MARTINIERE BOYS' SCHOOL, CALCULTY

As to the work done by the Chumber space will not admit of more than a brief outline and the following are some of the more important matters which

have engaged its special attention

The schemes for in improved witer supply and improved drawing in Compose the former his been completed the latter only partially carried out. The Chamber has since its formation taken a keen interest in all measures tending to promote the health of the cates of these provinces.

The Chamber has systematically opposed all oppressive forms of taxition. It has been the means of introducing into Cawip ore the "terminal tax" in substitution of Octro, ileht cess of from 1' to 1 inn is per mound on the trade of the town which has provided ways and means for the financing and mainte nance of the Drange and Water Works schemes The practice of levying income tax on profits on consign ments in India has also been condemned Chamber has urged the reconsideration of the whole question of the continuance of the income tax. The excise duty on locally mill manufactured piece goods has been protested iguist. A firm stand has been made against unnecessary and uncalled for restrictions being placed on factory labour. The Chamber has steadfastly advocated that a greater measure of State encouragement be extended to private enterprise by Government relyingless on the Stores Department of the India Office and by curtuling the competition of Inf industries

A liberal policy in regard to railway development has been advocated, and also the prosecution of the following projects—The linking up of the narrow gauge systems of rulway, east and west, and in this connection the bridging of the Gogra and Kosi rivers, access to Calcutta for the metre gauge, the opening out of the Palamow and Daltongum conffields, and direct broad gauge rulway communication between Calcutta and Karachi

The Chamber has also been particularly identified with the following questions—The reamposition of the cotton import duties—the undue disparity between Owners risk and Rulway risk rates of freight on rulways. In the matter of Currency it has been maintained that Government should accept the principle of making currency notes as far is possible and gold and sliver commissionally freely interchangeable.

The Chumber has also been instrumental in obtaining large reductions in coal freights from Bengal to the Upper Provinces, and has helped in securing further concessions in the Postal and Telegraphic services foreign and inland

THE OBJECTS OF THE CHAMBER

The clief times and duties of the Chamber are to promote and protect the general commercial interests of the United Provinces of Agriciand Oudh to encourage a friendly feeling and unaminuty among mercantile men on all subjects involving their common good, to act as a medium of communication with Government, and to acceive references from and arbitrate between, parties willing to abide by the decision of the Chamber, atc., etc.

PRINCIPAL ENPORTS FROM, AND IMPORTS INTO, CAWNPORL BY RAIT TROM 1894 TO 1905

Lyloris

Yeir	Cotton, (1w	Cotton Minu fictures	Hides and Skins	Wheat Bice and other food grains and pulses	Oil eed	Sul it
	Mainds	Vaunds	Maunds	Maunds	Mund	Maund
1894	1 71 700	1,81,328	1 00 362	11 68 803	1,79 387	3 47 506
1897	2 63 198	4,28 995	2 31 -34	10 67 401	1 72 377	2 68 636
1875	3 01 155	4,68,805	1,-1 300	6.4~247	4 46 067	3 19 483
1897	2,38 133	3 87 713	2 03 56	7 71,020	7 7t 84t	3 18 133
1898	1 58 4.7	90 701	1,21 707	11 07,806	10 64 642	3 47 486
1899	93 128	181,62,	3 07 756	23 92 828	6 07 118	3 10,231
1900	1,13 213	, 38 719	3 50 791	32,69 316	6,83 586	3 87 054
1901	1,65,926	7,99 280	1,55 755	14 62 100	3 04,032	3 49 171
1902	2 27 777	7 0 1,800	1,21 278	15 31,189	1,71 875	3 55,641
1903	1 76 811	8,05,507	1,35 168	11 55,931	8 65 613	2 74,487
1001	96,983	7,29 180	2,25,000	11,95 196	8 17,067	2 55 162
1905	2,22 603	7,35 115	2,95,075	7,17,560	2 74 156	3 23 562
1906	2 51,229	8,03 829	1,20,892	10 73 230	1 00 6 3	3 31,284

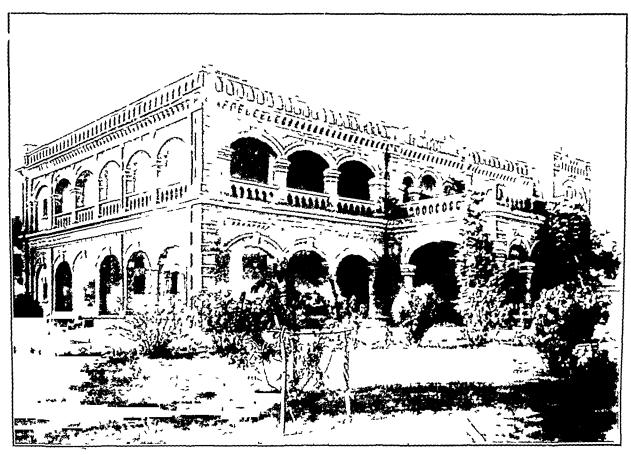
It has been the fortunate lot of Compose to rind as the first city outs de the Presidency towns to seeme the amenites of electric transvays and lighting the Indian Electric Supply and Fraction Co. Ed. which was "launched in London in 1995, having obtained concessions from the local authorities for a transvay system combined with a lighting and power supply scheme. The Company have for their local agents the old established house of Messis. Begg. Sutherland & Co.

The Upper India Chimber of Commerce was organized at a prel mainry meeting of local merchants held on the 12th September 1885, and the fast general

McRobert who has filled the chur for when yorrs, and Mr. S. M. Johnson and Mr. J. I. Strucke, have each official didn'ng one see ion.

Mr. W. B. Wishart retained the office of Screetars until his death in 1904 and we succeeded by the present Screetary Mr. A. B. Shake per who had previously held the office of Assistant Screetary which has now devolved on Mr. A. D. Piel ford

Mr Wishart had held his appointment continuously since the foundation of the Chamber influence are prepared only, and had exerted an important influence in extending and developing the usefulness of the Chamber for



CHAMBER OF COMMERCE PREMISES

meeting took place on 17th January 1889 Mr W E Cooper (now Sir William Cooper At CIE) occupied the chair, delivered the inaugural address, and was elected as President, Mr A S B Chapman being elected Vice President, Messrs J Harwood, A McRobert, J Tate and E C Ball as members of the Committee, and the late Mr W B Wishart, Secretary

The Chamber was inaugurated with a membership of 22, which has now been increased to 49

Sir W Cooper was President of the Chamber for nine years, and was succeeded by the Hon'ble Mr A the advancement and promotion of the mercantile in terests of Upper India, and in earning for the Chamber the confidence of Government as an adviser on commer cial matters

As a mark of the Committee's appreciation of Mr Wishait's services to the Chamber, it has been alranged to place his portrait in the Chamber's Hall so that his memory will be kept green

In 1894 the new building of the Chamber was completed, the necessary sum of money having been rused by contributions

The Tea Industry of India

Its Rise and Progress

In was in 1750 when Warren Hastings was Governor General that Colonel Kad one of the ear liest of Indian Lotani ts first plant ed tex seeds in the garden of his house near Calcutta. The exist ence of the indigenous plant in In his was then unknown. Colonel Kyd received his seed from China It was brought to him by the Last India Company's vesels plying between Calcutta and Canton The Company had determined at the instance of the British Govern ment to make some experiments in tea cultivation in India. These experiments they entrusted to Colonel Kyd Under his care the bushes flourished, not ith standing the unfavourable climate. He re ported the results to Sir Joseph Banks, who prepared a memorin dumon the subject for the Governor General Sir Joseph suggested that the cultivation of tea should be seriously undertaken, and he mentioned Behar and Kuch Behar as districts where the bushes would be likely to thrive. From China in 1703 he sent plants and seeds to Calcutta. But the political diffi-culties which cross about that time kept the guestion in the background, and no immediate steps were taken to put his ideas into practice. There seems however to have been a feeling that an indigen ous plant existed in the country To decide definitely who actually discovered it is not easy. The records are conflicting they have given rise to controversy, and opin ions differ What is clear is that between 1810 and 1825 the discovery was made. By some it is attributed to David Scott, who was the first Agent to the Governor General in Assam By others to one of the two brothers Bruce, who were Scott's contemporaries In 1824, on the breaking out of the Burma War, C A Bruce was ap

pointed by Scott to the command of a division of gunbouts. His commend was in Sadica and while there he is said to have sent specimens of the teaplant to Scott He sub equently stated that he had been previously informed by his brother-Major R Bruce- of the existence of the plant. On the other hand it is asserted that Scott had sent specimens to Calcutta as early as 1521. There is doubt as to whether Scott was himself in Assum proper prior to 1821. On the other hand it is in admitted fact that the Society of Arts is inded a medial to (\Lambda \) Bruce is being the discoverer of the plant. But discoverer of the plant. But whether the credit really belongs to the Bruces or to Scott, the fact remains that no immediate practical use was made of the discovery. The Scientific Adviser to Government at the time was Dr. Wallich, the Superintendent of the Calcutta Botanical Gardens To him the plants and seeds were sent. But he was- is he afterwards admitted-sceptical as to whether the Assam shrub was really a Thea. He recognised it as i Can ellia, but beyond that he was not prepared to go

In due course Ciptum Jenkins succeeded Scott in the Commission ership of Assam Jenkins is believed to have been previously interes ted in the ter question. He made investigations, and, aided by Licut Charlton, he re discovered the plant He forwarded botanical specimens to Wallich, who it i meeting of the Calcutta Horticultural Society held in December 1834, icknowledged that the plant was a genuine I hea. This was practically ten years after the original discovery by Scott and the Bruces Lord William Ben tinck was Governor General at the The East India Company's monopoly of the China trade had come to an end in 1833 They had previously foreseen trouble in this

connection, and were neturally inxious to obtain a new source of supply Consequently they drew Lord William Bentinck's attention to the importance of introducing ter cultivation into India and he innounced his determination to do everything possible to acclimatise the best types of China plants On the 24th Jinuary 1854 he appointed a Committee for the 'purpose of submitting) plan for the accomplishment of the intro-'duction of tex culture in Indix, "ind for the superintendence of its 'execution" The Committee deputed (, J Gordon, their Secretary, to China to investigate and to bring back specimens But soon after his departure they learned of the rediscovery of the Assam plant by Jenkins and Charlton They hastily recalled Gordon, but subsequently changed their minds, and deputed him to China i second time. In order that the Assam discovery might be thoroughly investigated, the Governor General appointed Drs Wallich, McClelland and Drs Wallich, McClelland and Griffiths as a Commission to report upon it The three travelled through Assum, and they agreed that a genuine Thea had at last been found But they regulded t as a degenerated plant, and they recommended the importation of the cultivited species from China They also reiterated the opinion-which had been previously expressed by other scientists—that the outermost ridges of the Western Himilayas would be the most suitable districts for tea cultivation Dr Wallich scems to have maintained this opinion, but the claims of Assam were eventually recognised by McClelland and Griffiths Gordon brought plants and seeds with him on his return from China The seeds were rused in the Calcutta Botanical Gardens, and in due course the young plants were

Intotas

Year	Sug tr	Cotton Kiw	Cetton Manufacture	Cost (ct	Hota to Skin	()) i	We at Pro-
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1902	5 66 629	3 7 158	11 171	11 -5 1 08	tico tea	279701	inclites
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1906	4 86 8~1	3 = 7 0 -	1 7 7	10 10 43	17 <u>7</u> 75°	1791/0	20 00 00



was evident and considerable time claused before confidence was res tored But there was a gradual improvement, and by 1870 several new and ultimately prosperous concorns-the Brahmaputri Ter (o Ld, and the Scottish Assam Ica Co Id, among them-had been formed

In the meantime production had been idvincing, despite the depression from 1,000,000 the 1862 the crop reached 81 millions in 1867, and by 1870 it had risen to 13 300 000 lb. The progres which had been made in the differ ent districts is vell illustrated by the proportion which each of them contributed to this total I rom Assum, ic the Brahm sputra Valley. 6 too ooo lb were derived from Cachar and Sylhet 4 600 000 lb. from Darjeeling, Kurscong the Term and the Doors 1 700,000 lb and from Kumion, Kingri, and Dehra Dun 600 000 lb Thus Dehra Dun 600 000 lb after about twenty years the Himalivan districts, of which so much was at one time expected, did not yield a crop of a million pounds From 1870 to the present time the progress of the industry, so far as production is concerned, has been rapid By 1880 an area of 208, 102 ieres was being cultivated, and the total yield was 41 925,025 lb Len years later the cultivated area resched 344 827 neres, and the yield 112,036,406 the The suc ceeding decide witnessed in even swifter idvance. For by 1900 the area extended over 522,187 acres, and the production aggregated 197,460,664 lb The litest figuresthose for 1906—show that the area now under cultivation is 529,995 icres, and that the total vield 15 240,849,894 lb Assam 15, of course, by far the most important of the producing districts. With a cultivited ire i of 340 481 heres and a yield of 162,468,034 lb, she is cisily first Jilpinguri follows with an irea of \$3,347 icres and a yield of 44,602,885 th These two districts have been recently placed under one administrition, is a consequence of the creation of the Province of Eistern Bengal and Assam In other words, the new Province is responsible for the production and manufacture of more than 85 per cent of the total Indian crop This fact is a striling

commentary on the belief entertained by the pioneers of the industry that tea could not be groven on the plans The development of cultivition in Southern India has been marked, since it was commenand Trivincore and Cochin, and the yield now re ches the year respectable figure of 1412 mils Of all the Indian tea districts the Himilayan districts in the United Provinces and the Punjab have exhibited the least tendency to expansion. At the present time their cultivated area is officially returned is 17 522 neres, and their production at 35-7 563 lb But is a large number of the cardens are of very small extent, and are in the hands of native cultivators. these figures may not be ab olutely reliable

It has been already remarked that the United Kingdom has always been the principal market for Indian tea Perhaps there fore it may be of interest to trace briefly the progress of the tea drinking habit in that country. What seems to be the earliest record of the importation of tea from China into Ingland is an entry in the books of the Last India Company in June 1664 of a present of 2 lb 2 or of their having been made to the King (Charles II) The price vis to shillings per lle Two years Liter the Company made His Maies to a further present of 227 lb at 50 stillings a pound By 1677 the Company seem to have se cured a supply for commercial purposes Prices ranged from 15 to 110 sterling per pound A heavy import duty of 5 shillings per pound and 5 per cent ad valorem was levied in 1689 Naturally it discouraged consumption. But nevertheless in 1703 the imports amounted to 105,000 lb, and the price had dropped to 16 shillings From 1710 to 1810 the Company's sales aggregated 750,210,016 lb valued at [129,804,595 Of this quantity about 116 mils were re exported to other countries. In 1811 the quantity of ter consumed in the United Kingdom is recorded 15 being 22,454,532 lb, in 1820 it renched 25,712,935 lb, in 1830, 30,016,935 lb, in 1840, 31,716,000 lb, in 1850, 51,000,000 lb, in 1860, 76,800,000 lb, of which a

very small proportion was probably Indian Atavery early period in the history of tea the East India Company obtained from the Brit ish Government the right to be the sole importers. This privilege they emoved for nearly one hundred and eights years, it being abolished as

11tc 15 1833

One of the most striking features in the history of the Indian tea industry is the gradual displacement of China tea by Indian in the United Kingdom. In 1866 China ter represented 96 per cent of the total consumption, and Indian ter the remaining | per cent From that time to the present the Indian proportion has been steadily in creising In 1870 it rose to II per cent and thence to 28 per cent in 1880, to 52 per cent in 1800, and to 50 per cent in 1906 Cevlon ters first made their appearance on the I ondon market in 1883 Of the total consumption they then represented one per cent. In ten years the percentage rose to 31, at about which figure it still stands. As regards actual weight, the imports of China tea did not decline until after 1879. In that year they reached their maximum of 120,340,000 lb. They have since so far contricted that in 1904 they did not much exceed II mil lb And even before 1879 Chin i ten fuled to keep abreast of the growing demand. From the overwhelming proportion of 96 per cent in 1866, it fell to 83 per cent in 1876 By 1886 it reiched 59 per cent, by 1896, II per cent, in 1901 it touched as low as 7 per cent and by 1906 it had still further declined to about 3 per cent

These are extraordinary figures. and they furnish conclusive testi mony of the energy with which Indian and Ceylon tea proprietors have pushed their product. They are of interest also as showing how the British public gradually realised the superiority of Indian ters over Chinese The capture of the British muket has been indeed a great triumph for the British planter But like most victories it has entailed a sacrifice As the consumption of Indian and Ceylon tea has gone on increas ing, the average price has continued to fall In 1881—when the con-

some to Assam, to the Himal is an localities, and some to Midras In the first and last named district, the experiments were unsuccessful But in the me intime other experiments in the cultivation of the indigenous plant had been initiated in Assam by Cipten Jenkins fostered by Dr Griffiths

cventually samples of ger

Assam tea were produced 1830 the Assum Company was formed in London with a capital of nearly a quarter of a million steeling It was by no means successful at first For about ten years most of its experiments seem to have ended in disaster In fact at one time it was on the verge of liquidation But gradually it strengthened its position. Its me thods of cultivation and manufac ture were reformed and by about 1852 it began gradually to enter upon an era of prosperity In the meantime other gardens were being opened out in all directions By 1854 the exports of Indian ten to the United Kingdom amounted to 250,000 ib In the following year the indigenous plant was discovered in Cachar, and in 1856 Mahomed Warish found it in South Sylhet The Jorehaut Company most successful undertaking—was con stituted in 1858 And from that date the tea industry of Assam may be said to have been fairly estăblished

It is now necessary to turn to those Himaliyan localities, the claims of which is prospective tea growing areas had been urged so strongly by Dr Wallich As has been already indicated, the days of Indian tea favoured the Himalayas Not Wallich only, but other scientists—Royle, Super intendent of the Government Gar dens at Saharanpur, and Falconer his successor for instance—were inclined to that view. Their anti cipations were not realised, although it is not untrue that the China varieties do flourish in the cool hill chmate Naturally, it was not foreseen that the strongly flavoured Assam indigenous teas would become popular with the consumer There is therefore nothing surpris ing in the endeavour of the Gov ernment to produce teas precisely

some similar to those imported into the United Kingdom from China Reference has been made to Gor don's mission to the latter country and to the stock which he brought back with him Apparently these plants did not suffice for a further These were supply was called for To obtain it Mr Robert Fortune was depu ted by the Government to China genuine m 1848 He returned to Cdcutt; in 1851 with a lirke quantity of I_{n} seed and upwards of 20 000 plants While in China he had studied methods of cultivation and manu facture On his return he visited Dehra Dun and the Kangra Valley, and reported upon the plantations there His report was unfavour able The Government was dis appointed at the non success of their efforts and, but for the per sistency of Dr Jameson, who had succeeded Palconer at the Saharan pur gardens, they would have ter pur gracens, they would have the minited their experiments. For the affairs of the Assam Company were at the lowest ebb, and the prospects of ter cultivation in India were gloomy indeed But Lord Dilhousie visited Kingri in 1852 He permitted the experiments to be extended by the cultivation of Holta, and he allowed Fortune to undertake 3 second mission to China On his return Fortune again reported on the Kangra and Dehra Dun gardens, and he was forced to admit that some of his previous strictures were not justified. In fact, he now went so far as to say that he had not seen better plantations in China Nevertheless he still criticised, and for some time a somewhat acri monious controversy proceeded between him and Jameson To followit is not now necessary But it was probably not without its value for it doubtless contributed as did most of the disputes concerning tea—to greater precision of investigation, and hence ultimately to better methods cultivation and manufacture

It has been already remarked that by 1858 the industry was fairly established in Assam In respectable total of 1,400,000 th, been produced in Assam At about this time tea began to at

tract the attention of company promoters and speculators both in England and in India The Amer ican Civil War was in progress, and fortunes were being made with in India The success of the Assum and Jore hant Companies and of a few pri Vite kirdens enabled exister ited pictures to be drawn of the prospects before concerns with prospects. cipital Tind was reclassly taken up Companies were listily formed Almost every day say the constitution of a new company in Calcutti Shares rose to in extravariant premium I and was Cisily obtained by Speculators, for the stringent wiste lind rules in troduced by Government in 1854 were to a certain extent relaxed in 1861. Some of the promoters endervoured to chere and cultivate the land. But in many cases large clearances were made without iny adequate provision for labour In others there was not even an it tempt at cultivation Literpris ing promoters found it to be more profitable to persuade shareholders to invest in gardens which did not exist As for example in Now Long, where the manager for a London speculator was instructed by the latter to clear and plant a certain area of waste land for delivery to a Company to whom it had been sold as a tea barden this inevitable sequence of all this wild excitement followed speedily By 1866 the bogus Companies were generally collapsing A strong reaction against tea set in Share hasto holders sold out in frantic haste The mania was succeeded by a princ Shares which had been forced up to a heavy premium fell values. In fact, the crisis became so reute that in 1868 the Government appointed a Comthe Government appointed a Commission to enquire into the state of the industry. The report of the Commission showed that the flourishing That is to say, in these cases where they had not those cases where they had not been damaged by the influence of Promoters But as regards several of the new concerns, the Commis sion intimated that in the general interest they should be wound up From this period the crisis passed slowly away. That a severe blow had been dealt to the industry

able proportions, and every year witnesses a further growth One quite remarkable feature of the last few years has been a great transference of the Russian trade from London to Calcutta And not only has the trade been thus shifted, but it has greatly in creased in volume Direct exports to other countries are also developing

It may be interesting to mention the amount of capital invested ın Indian tea To obtain exact particulars is not easy, as a considerable area is still controlled by private owners But the official returns of Joint Stock Companies show that at the present time the invested capital aggregates Rs 22 crores Of the companies registered in India fifty three declared dividends amounting to 6 3 per cent on their aggregate capital in 1906 In the preceding year the dividends declared by the same fifty three companies aggregate 56 per cent Sixty eight English companies with a total capital of 1,480 lakhs of rupees declared dividends amounting to 38 per cent in the year

1904, and to 4 per cent in 1905

No account of the Indian tea
industry would be complete with out a reference to the question of the supply of labour From the earliest days of tea planting in Assam there have been difficulties in obtaining a sufficient labour force In the Himalayan districts the gardens are, generally speaking, worked with local labour But in Assam, and in the plains of Bengal, all tea is cultivated and manufactured by imported labour The Assamese are not, as a rule, a labouring people, and the abori ginal inhabitants of the Dooars -the chief Bengal plains districthave retreated before civilisation There is very little tendency on the part of the people of India to move voluntarily from one part of the country to another Emigration to Assam has therefore been almost entirely of the assisted order It has necessitated recruit ment, and a system of transport Legislation to prevent abuses in the recruiting districts, and on the journey, was first attempted by the Government of Bengal in 1863 The Act then passed was subsequently amended and revised on

several occasions Ultimately the inland emigration law was embod led in an Imperial Act, which was last revised in 1901. The system of recruitment and management of labour under the labour law is unique It has grown up gradually. and is really a sort of compro mise between the Government and the planters The Government rightly felt it to be their duty to protect the ignorant coolie against the possible dangers of a long journey to an unknown country To do this they imposed restrictions on recruitment, and compelled those recruiting the coolie to take care of him on his journey These restrictions and regulations have now grown to enormous propor tions They are both numerous and complex, and provide for the smallest detail of recruitment and transport Their introduction of necessity enhanced the cost of obtaining labour On the other hand, the planter was given a greater measure of control over his labourer than the civil law permits coolie enters into an agreement to work for so long But if he breaks his agreement, it is useless to bring a civil suit against him For he is ordinarily a man without property, until he has been on the garden for some time His contract under the labour law is therefore of a penal character, and if he absconds, he renders himself liable to imprisonment On the other hand, heavy obligations are laid on the employer Not only has he to bear the cost of Government inspection and supervision in the recruiting districts and en route, but he has also to provide rice for his labour force at a fixed price, irres pective of its market value He has likewise to provide housing accommodation, medical attendance and other comforts, and his garden is open to the inspection of a Govern ment officer It is, as has been said, a unique system But it cannot be truly termed successful, for labour in Assam is at once scarce and costly The system obtains in Assam only, as in the Dooars of Bengal the labour is both imported and worked without Government intervention The tendency at the present time is similarly to free the Surma Valley from the labour law In that district it is not used to the

same extent as in Upper Assam, but whether if it were entirely removed either employers or employed would ultimately benefit, is a problem still awaiting solution

TEA CULTURE AND MANUFACTURE

When tea culture was intro duced into India between 1830 and 1840, the ignorance as to the methods to be adopted was all but absolutely complete The tea districts of China were al The most maccessible and had been rarely visited by Europeans, and reliance had to be placed as to both methods of culture and manu facture almost entirely on the few Chinese who were imported into India for the purpose of carrying this out If the intrinsic diffi culty of tea culture be super added to this absolute ignorance, there is little wonder that the first few years were a time of bad methods, of unhealthy tea, of small crops and generally of failure The present system of cultivating the tea plant and of making tea are the outcome of many years of experiment and of invention, and the story of the last seventy years is full of the failures of those on whose experience the present sound structure has been

The tea plant, it may now be said, flourishes both on flat and hilly land up to a height of three to four thousand feet if conditions of climate are suitable. It is grown both in Ceylon and Darjeeling up to an elevation of nearly seven thousand feet, but the bushes at the higher elevations are very much less vigorous than at lower It requires, for the best results, a rainfall of eighty to one hundred and twenty inches per annum, and this should be fairly well distributed throughout the year A long period without rain is of grave disadvantage in tea culture, and prevents, almost entirely, the growth of the finer varieties As to temperature, very little growth of tea leaf takes place when the minimum temperature is under 53° F, and the tea bush, at any time, is seriously damaged by frost It may be taken that it is unwise to attempt to grow tea

sumption of Indian ter in the United Kingdom was just over 484 million to—the average whole sale price was is 5d per 10 By 1891 this had dropped to 104d, by 1901 it had reached 71d, but during the last year (1906-07), for which particulars are available, it had riscn to 883d per lb Many causes have contributed to the fall which these figures exhibit In a keen competition for a market, prices naturally decline be cause the aggregate supply from the different competitors tends to exceed the demand This has been the case as regards tea in the United Kingdom At first sight the ob vious remedy would seem to be to diminish supplies, in other words to produce less But to control production, except perhaps on the Trust or Combine principle, is practically impossible, and such a principle would not be likely to commend itself to Indian ter proprietors Moreover, it must not be forgotten that it has been by producing so freely that India and Ceylon have ousted China For it is very doubtful if even superior ity of quality would have triumph ed, except for the fall in price which the so called "over production" entailed The diminution in the value of silver has also greatly in fluenced the production and price of tea The fact that the bulk of the produce of Indian gardens was sold in a country with a gold cur rency, and was produced in a country with a depreciating silver currency, undoubtedly tended to stimulate production As the price of silver declined, more rupees could be bought with the same quantity of gold and cultivation consequently became cheaper But the Indian Mints were closed in 1893, and the value of the rupee was subsequently fixed by legis lation at is 4d the fifteenth part of a sovereign Stability of exchange was secured, and the country generally has no doubt derived much advantage therefrom But ten proprietors suffered as soon as the new gardens-which a depre ciating rupee had tempted them to open—came into bearing For while prices in the United Kingdom were tending to fall, the cost of production was at once considerably increased Another indirectly

adverse result of the currency legislation was that producers in China continued to work on a free silver basis thus having an advantage over their Indian competitors

But little need be said of the import duty, which has always been levied upon ter in the United Kingdom At the beginning of the nineteenth century it stood at about 3s per lb It was gradually reduced, until it reached 4d in 1890 At that figure it remained until the occurrence of the South Afri can War It was then enhanced to 6d, and again in 1903 to 8d In April 1905 it was however put back to 6d, after a most vigorous agitation both in England and India by the tea industry, and in the following year it was reduced to 5d at which it now stands There is no necessity to deal with the effect of the duty on consumption port duty is really an addition to the price of an article, and an enhancement of it naturally tends to raise the price and so to diminish consumption At least it should do so theoretically, although in so complicated a trade as the tea trade it is difficult to follow the precise effects of a variation of two pence per lb But the broad fact remains that, as the duty was gradually lowered during the nineteenth century, the consump tion of tea in Great Britain pro gressively increased It is a fair argument therefore to say, as tea producers do say that if the duty were gradually reduced and ultimate ly abolished, the consumption per herd of the population would still further develop

It has been already pointed out that the United Kingdom has al ways been the principal market for Indian teas The fact that production has to a certain extent outstripped demand has been also mentioned, and the difficulty of controlling production has been touched upon But if supplies cannot be or ought not to be, diminished, there is no reason why the demand in countries other than the United Kingdom should not be stimulated And so to stimulate foreign markets has been for some ten or twelve years past one of the primary objects of both Indian and Ceylon pro

ducers It is undeniable that Ceylon has taken the lead About thirteen years ago the island plan ters induced their Government to impose a small tax on all teas exported The proceeds of the tax were made over to a Committee of plinters to be expended in advertising and subsidising Coylon teas in foreign countries. The experi ment succeeded, and with the funds thus placed in their hands the "Thirty Committee"—is the evecu-tive body is styled—have pushed Cevlon tea throughout the civilised world In 1894 the quantity taken by foreign countries was only 141 mil lb In 1904 it was nearly 86 mil lb, and by 1906 it had increased to about 381 mil lb. On the other hand, the quantity sent to London in 1894 was 711 mils, in 1904 it was somewhat less than 791 mils and in 1906 it was about 92 mils These figures show that Cevlon has largely succeeded in its efforts to control supplies to the United Kingdom by fostering the foreign demand

India has not been quite so successful Indian producers were unable to obtain the imposition of a tax until 1903 For ten years previously they had contributed to a voluntary levy But the sum thus raised annually was very much below that derived from the Ceylon tix Consequently, Indian efforts in foreign markets have been, until quite recently, less extensive and less persistent Nevertheless they have not been without result Progress has been made, and now that the cess-as the tax is termed -is in force, greater developments may be anticipated In 1894 about 141 mil ib of Indian tea were sent to foreign countries, in 1904 nearly 57 mils, and in 1906 the total had increased to close upon 78 mils On the other hand, Indian imports into the United Kingdom stood at 117 mils in 1894, had risen to 155 mils in 1904, and to 1594 mils in 1906

The growth of the foreign demand has been accompanied by the devel opment of Calcutta as a distributing centre. As transport has been quickened and cheapened, the ten dency has been for foreign consumers to buy in Calcutta rather than in London. The Calcutta market has in consequence now reached respect-

the hands till the juice was expressed and the leaf well twisted Now this process is performed usually by machinery which imitates the action of the hands in squeezing and twisting the leaf, and so expressing the juice The harder it is rolled the more juice is expressed and the darker in colour is the liquor obtained by infusing the finished tea, the lighter the rolling, the more juice remains in the cells and a pungent light liquoring tea is produced, in which the golden colour of the immature tip leaf is not darkened, thus giving a pretty looking tea full of "golden tip" The rolled leaf is then fermented, for which purpose it is placed under conditions of the greatest cleanliness possible, in a cool and damp house on shelves, or on a cement floor, in heaps two to four inches thick The colour and smell of the leaf gradually change, the mass becomes coppery brown in colour, loses its leafy smell, and gets the odour of black tea When the change has gone far enough (a point which only an expert can judge), the leaf is taken away and dried off as quickly as possible at a temperature of 200° to 220° F. The time which the fermentation takes varies from 2 to 6 hours. The drying is done by a current of hot air, in machines made especially for the purpose.

After firing, the tea is sorted for the market by sieves The 'dust' is taken out by the finest sieve, the 'broken orange pekoe' or youngest and finest leaf by the next, and so on, the grades usually made being, in order of fineness, 'broken orange pekoe,' 'broken pekoe,' 'pekoe,' 'pekoe souchong,' 'souchong'

Sorting is done by hand on small estates, but in large plantations

machinery is used

Since 1901 there has been a considerable revival of green tea making, but under conditions quite different to those under which it was made in the early days of tea in India. The object being to roll and dry the tea leaf without fermenta tior, the first process consists in destroying the ferment by heating the leaf fresh from the garden, with steam under pressure for one or two minutes in a revolving cylinder. The

material is partially dried, then rolled and then finally fired off at once

Tea is packed in wooden boxes lined with thin sheet lead (tea-lead) which should be soldered so as to be quite air tight. Before putting into these boxes, however, the sorted tea must be again fired at about 180° F until quite dry, and packed while still slightly warm

The yield of leaf on Indian tea estates varies from about 20% pounds per acre up to 1,100 pounds per acre. The forner amount is given by high level Darjeeling gardens plucking very fine (1 e, very young leaf only) and inaking high quality tea. The latter is obtained on the most luxuriant of the peat bheel estates in Sylhet. The average for the more important districts in North-East India for the last five years was as follows—

	₫ŧ
Brahmaputra Valley	435
Surma Valley	459
Dooars	457
Darjeeling	297



falls the temperature more than very occasionally below the freezing point provided there wherever be plenty of rain, the raising of the temper ture has no evil effect the temper name has no evil the tapidity of but only increases the rapidity of hand, dry growth On the other hand, hot winds are fatal to luxuriant not whose the factor to the failure of tea culture in

Two points are of special im portance with regard to the tex Chota Nagpur portance with regard to the text, first, ture of the soil It must, first, be well drained, and secondly, it must be easily penetrable by tea roots A hard soil and a water logged soil are equally fatal to suc cessful tea culture, in the former case the bushes cease to yield and become the prey of blights in the latter, they die out the soil is deep, moist, fairly porous well drained or drainable at all seasons, and with a sufficiency of plant food, tea is likely to do well so far as soil conditions are concerned The soil must be well supplied with vegetable matter, though much excess in this constituent leads to the production of a large crop of weak watery tea without tea navour roverty, in organic matter however, will lead to unhealthy tea, giving but a small crop tea, giving but a seems largely to quality of the tea seems largely to the dependent on the mineral plant the dependent on the mineral plant be dependent on the mineral plant be dependent on the mineral plant food in the soil, chiefly the phose phoric acid and potash All tensols contain very little lime, and a large quantity of this constituent is deleterious to the plant

deleterious to the plant
There are several well known
of the tea plant The
varieties of the tea plant
of the tea plant
of these are the
varieties of the Assam and genous,
The 'Assam'
The 'Assam'
and the 'Manupur'
and the gives a distinctly better
indigenous' gives a distinctly better
and the 'Manupur'
of tea than the 'Manupur' large quality of the plant deleterious to the plant quality of tea than the 'Vanipur,' and should be planted wherever the soil and chinate are very the son and chinate are very favourable, where this is not the case, the Manipur's type is preferable, as it will flourish and yield well under conditions where the wen unuer conditions where the more delicate types would become the prey of disease the prey of disease It does curable about November not keep well, and should be sown as possible after being plucked It is usually dibbled out into nurseiles at from 4 to 6 inches apart in land very carefully pre pared Forty pounds of seed may

be expected to give about ten thousand plants and will put out about four to four and a half acres about four to four and a half acres under tet Nurseries should be shaded for several months after the plants are about 1000 months. the plants are above ground

Planting out may be done either rianting out may be none either when the seedlings are six months old, or when they have been in the nursery for a year the large hours and preserved adopted plan is being increasingly adopted they are put out with a ball of they are put out with a ball of they are put out with a transfer of the cost into earth attriched to the root into land carefully prepared for their reception in rows at 2 distance apart reception in rows at a distance apart of 41 by 41 feet or 5 by 5 leet The former (with square planting) gives a little more than 2,000 bushes to the acre, the latter only

After planting it has be n found necessary in India to keep the land carefully tilled, generally by hand-hoeing, both in order to prevent the growth of weeds and to keep the surface of the land loose following hoeing is usually considered to be required in North India (a) a deep hoeing at the commencement of the annual dry weather, which should be at least 8 inches deep, (b) from four to six light hoe ings per annum, each of which loosens the soil to a depth of about

Manuring is not usually needed for several years after a plantation four inches started Nitrogenous manures are then principally required, and of these, cattle manure at the rate of these, cattle manure at the late acre is the acre is the acre is the best olicake has with great recently in India manuring by advantage advantage acron of shaft kalar auvanias of a crop of mati kalai (Phaseolus mango) grown among the tea in May and June has devel oped to an enormous extent in Assam in the last four years Ceylon Crotolana striata has been similarly employed Certain trees growing among the tea, notably
Albizzia strbulata (the sau of Assam) have been found to have consider

In order to ensure continued yield, able benefit upon it annual pruning of a tea bush is annual pruning of a rea ousn is necessary This pruning commences at an early age of the plant, and in best practice it is not the custom to cut down a seedling to six inches from the ground at a vear old such plant then throws out new growth in the form of a

bush, and is cut again two years afterwards at 14 to 18 inches from the ground After this each year, the ground after this rach year, only about 11 to 2 inches of new thinks. only about 15 left on the bush (light growth 15 left on the bush (light the bush the growin is rem on the bush (light pruning) recessary to cut more deeply into necessary to car more acceptand in the bush (heavy pruning) and in extreme cases to prune it right down at the level of the ground

down at the level of the ground (collar pruning)
(The annual course of plucking about as a light pruning) is about as follows. Iter the tea has been follows new shoots begin to grow, and after 2 to 1 months have at prince, new shoots begin to grow, and after 3 to 4 months, have at tained a length of nine inches or nore At this stage the youngest two leaves with the unopened tip two leaves with the unopened tip leaf are plucked off by hand ("tip ping") This "tipping" the base secondary growth from the base of the remaining leaves on the Secondary grown from the base of the remaining leaves on the original shoot, and after about three weeks, these secondary shorts can be similarly plucked, leave two mature leaves on e which the below the point at plucking takes place This brings about the growth of a third series of shoots, and a fourth, fifth, sixth of shoots, and a fourth, nith, sixin and seventh series are constant the same way. These are known the same way. Eight distinct series as 'flushes' usually the following of flushes is usually the number given by bushes in one number given by bushes in one of flushes is usually the largest in one number given by bushes in one season. In the early part of the almost season the pluckings are almost the pluckings are of the season the pluckings are almost coincident with the growth of the flushes After this they are much more frequent, and the bushes are much usually plucked from twenty to thirty usually plucked from twenty to the times during the rear at intervals

times during the year at intervals of from seven to nine days during the greater part of the season Almost the whole of the leaf Almost the wnoie of manufac plucked in India is now The method tured into black tea... The method used is briefly as follows
The plucked leaf, brought in tured into black tea.

from the estate, is spread, as thinly as possible, in a cool and shady as pussione, in of hessian or bam-house on trays of hessian or bamboo, to wither Here it remains until it is flaccid This operation until it is naccid a time varying of withering takes a time varying from 12 to 36 hours. At a tem perature of 80° F, the ideal time is about 20 hours, without leaf is perature of the about 20 hours about 20 hours withered system of the condition to roll the withered rolling was to place the withered ready to roll leaf on a table where it was rolled to and fro under the pressure on

GROUP OF MEMBERS OF THE BOMBAY MILLOWNERS' ASSOCIATION

Mi C J Michrel, 1881 Secy t Grerves Mr Nioroji B Sal latwila Mi Leslie Rozers Secy Mi Nusservinji N Widir Mi Leslie Rozers Secy Mi Herbert Grences Mr Dwarkadas Dharamsi Mr Bradbury

Sir Dinsham M Petit Bail. Sir Vithuld is D. Thakeisi Mr. Jamsetyi A. Wudia Sir Sixxoon J Divid Mr Nitrond is Purchotumdis

Mi Minmohundas Ramji Sir Jehangir C Jehangir Sir Sir Sir Sir Jehangir C Jehangir Habboy Habboy Habboy Habboy Mr Bomanji Dinshaw Petat Mr Ahmedbhoy Habboy

Indian Cotton Industry.

HISTORICAL

Though the date of the inception of the ait of wearing cotton into cloth in India has not been accurately ascertained, it is well known to have existed from times the most uncient. According to the late Sir William Hunter, it was known as far back as the days of the Mahabharata, which itself counts several centuries Periplus, who is recognized as the earliest authority on the trade of India, enumerates a great variety of cotton fabrics among her exports The generic name for these among the ancient Greeks was Sindon, which is said etymologically to be the same as Sindu, or the country watered by the Indus But it may not be uninteresting here to quote some further observa tions of the distinguished author of the Imperial Gazetter of India "Marco Polo, the first Christian traveller" he says, "dwells upon the cotton and buckram of Cambay When European adventurers found out the way to India, cotton and silk always formed part of the rich cargoes they brought home. The English, in particular, appear to have been careful to fix their earliest settlements amid a wearing population— it Surat, Calicut (whence the word 'calico''), at Masuhpatam, at Hughli In delicacy of texture, in purity and fastness of colour, in grace of design Indian cottons may still hold their own against the world " Thus India may be correctly considered as the original home of the cotton plant and cotton industry, from immemorial times. Her fabrics were highly prized by man from the West, who directly traded with her from the days of the early Roman Empire These manufac tures continued in great estimation at high cost, till I ancashire started her first spindle and loom by motive power and gradually shut out the import of the indigenous products altogether. Many circumstances have since conspired to bring about a serious decline in the hand-loom industry. As Sir William Hunter correctly tem irks. "In the last century, England excluded Indian cotton fabrics, not by fiscal duties but by absolute prohibition. A change of fashion in the West Indies on the abolition of slavery took away the best Then came the cheapness of production in I incishire mills due to improvements in machinery Listly the high price of east cotton during the American War (1861 5) however beneficial to the cultivators, turly broke down the local wearing trade in the cotton-But above all other circumstances crowing tracts there was one of such paramount importance to England in her economic relations with India that it might be most properly said to have well high runed that most the it and profitable industry. 'The necessity' as Sir William Hunter.' under which England hes to export something to India to pay for the multifarious imports his permanently given in artificial character of it fation to this branch of business." The inflation, it should be observed, has gone on steadily upwards. In the proportion that exports from India to the United Kingdom have increased, the ratio of imports of cotton cloths from that country has also shown increase. Those imports have risen in value from 16.45 crore rupees in 1875.6 to 36.95 crore rupees in 1905.6, not with standing the fact that steam cotton mills have gone on multiplying in India during the whole of the intervening period. It remains, however, to be seen, whether, with the recent growth of the spirit of Swadeshi, accompanied by the industrial revival which is to be noticed all around, this heavy importation of piece goods, the value of which amounts to 35 per cent of the total private merchandise imported in 1905.6, will be maintained

EARLY COTTON SPINNING BY MACHINERY IN INDIA

Meanwhile, the rise and growth of the indigenous cotton industry in this country by means of steam power, may be narrated On all hands it is admitted that the very first cotton mill of the kind which was successfully started was in Bombav in 1853, though it is a fact that the Goosery Mill made a prior start at Calcutta several years earlier, but without any of the success which attended the one which owed its origin to the enterprise of a Parsi gentleman named Cowasji Nanabhov Davar It was a small concern of about 5 to 6,000 spindles only A mill equipped with both spindles and looms was, at the time, still a possibility of the future. When we take into considera tion the condition of the sea borne trade in all India which was wholly carried on by means of sailing vessels, via the Cape of Good Hope, the average duration of four months for a voyage from England to Bombay, or Bombay to England, and the fact that the means of landing and transport were of the scantiest, while unskilled labour had to be organized and coased into engaging itself in this industry (considered extremely dangerous by reason of the novel machinery and appliances to be worked), some frint idea of the many difficulties which had to be surmounted by the projector of the enterprise may be realized. True it is that Bombas, as the port of export of raw cotton, had a few presses of a rude type, which were worked by steam power. These presses served to impart a knowledge as to the saving of minual labour that could be effected by machinery But beyond having some little experience of the pressing of cotton bales for export, the citizens of Bombay engaged in the foreign trade had no concrete ideas as to the spinning of the raw material by means of michinery driven by steam power that the enterprise on which Mr. Davar embarked was at once novel and risks, and was viewed by those unrequainted with the earlier history of Lancashire steam cotton factories, with exceeding curiosity, if not sus

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concurs many procured rememors on the maustral evolution of the country which are almost prophetic, and an the events which have succe occurred Thest enterprising roung Prisis of the early Fifther seemed to have possessed the inquisitive and adventurne faculty to a remark the degree. They inquired why it was not pricticable for India to manipulate her own cotton, and how it was that the raw material wis own corton, ma now it was that the raw material was exported in large quantities on the one hand, indion the other imported back into the country in the the other, imported pack into the country in the shape of manufactured varn and cloth? Where would have of manufactured varname Rut the industrian Lancashire be without cotton? But the indigenous rancasure be without corton their rein door then might it not be manufactured into finished varia then might it not be manufactured into misned viril, or piece goods, by the same means which were employed by Lancashire? It was this healthy and the model of the complex emplosed by Lancishire it was this nearth, and partnotic spirit of inquiry that led to the starting

ne first steam cotton min in man Spinning machinery was the first requisite, and spinning machinery uses the first requisite, and led labour the next of the first steam cotton mill in India skined prious the next assisted and guided by some sympathetic European friends in the city, Mr Day in Symptometre Lutopean mends in the city, at DAN if boldly embarked on his great enterprise, which was not the transfer to make the make the transfer to the tra boldly embarked on his great enterprise, which was, within twenty years, to make Western India familiar with action suggestion suggestion and the contract the contract of the contract the skilled labour the next within eventy years to make western much miniar with cotton spinning and weaving, and bring about the lithy but most gratifying revolution in industrial develop nut most granying revolution in munistrial develop.

The country ment during the subsequent thirty years. ment auring the subsequent thirty years of this great industry in the land and those who were actively associated ed with him in bringing it to 7 successful issue ea with min in oringing it to I succession issue That first mill still stands on the ground on which it was ong nrst min sum strings on the ground on which were subscitually built, albeit many of the blocks which were subscituded from the string to the s many punt, amort many or the plocks which were subscipling added from time to time by Mr Dayar's quently added from burnt down and reconstructed successors have been burnt down and reconstructed the first successors have been burnt down and the first s successors have been burnt down and reconstructed.

It is situated in Tardeo, which was the first mill district in point of importance, and is now known as district in point of importance, and is now known as "The Shivlal Spinning and We lving Company" Bombay Spinning

Fifty years are, of course, very little in the life of a Having regard to the condition of education people raving regard to the condition of education in the country, the lack of facilities of communication for purposes of trade between one town and another, between district and lactuat and lactua between district and district, and between province and personness the absence of realization and stoom more of the absence of realizations. province, the absence of railways and steam vessels, the paucity of monetary institutions such as banks, the non existence of paper currency, in short, of the

almost total lack of all those diverse resources of a umost total rick of all those diverse resources of a highly organized industrial country, at the time of the nighty organized industrial country, at the time of the establishment of Mr Davar's mill, just fifty years ago, estronament of all slaction to notice the progress which in the meantime has been made in the cotton Of course, it cannot be sud that even after industry Of course, it cannot be suo that even after the progress of half a century India has become in and way a serious rival or competitor to Lancashire any way a scrious rival or compensor to Lancasnire.

She is not far away and behind that stronghold of

The following statistical return from the Economist Great Butain's textile industry The tonowing stanshen termin from in Leonoplete September 1906) gives the reader 1 complete

grash of the world's spindle power

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	TOTAL, WOFLD	United Kingdon
	TOTAL	Tiniteu Ink

Since September 1006, the United Kingdom has nnce represented trave, the entired kinggom 175 incirculated its spindle strength by another 30 laklis, and increased its spindle strength by another 30 12kms, and the Continent by 5 12kms Practically, therefore, the number of spindles which will soon be at work in the terminal of spindles with a spound to 5 20 cross. number of spindles which will soon be at work in the Against country will amount to 5.30 crores. Against former country will amount to 5.30. In reality, India which India can boast of only 52 lakhs. In reality and the Holland Eurodean in country will be the Holland Eurodean in country to be body the Holland Eurodean in country and the Holland Eurodean is behind the United Kingdom in spindle power alone to is bening the United Kingdom in spingle power alone to the extent of 478 crores. The total number of looms, the extent of 4.70 crores the total number of 100ms, including the addition of about \$0,000 last year, number inclining the adultion of about 50,000 last year, number as miny as 7,00,000 against India's 65,000, according to as m inv 15 7,00,000 ig instances 11 will be thus noticed how the litest computation. It will be thus noticed how immersurably behind is the country in the strength of immersurably behind is the country in the strength. inmersurably bening is the country in the strength of the power looms and spindles. There is, however, its power looms and spindles There is, however, India started on her nothing to be despondent about India started on her mounts to be despondent about India started on her indiated and contained on the containe industrial evolution a century behind Great Britain, and incustrial evolution a century beams or at Directly and resources, despite the fire of S vadeshism now kindled, to be able at some me of 3 panesment now kindled, to be the receive the measurable distance of time to run 7 race with the latter country

Coming to the history of the cotton industry, it might be stated that between 1853 and 1874 there were no more than fifteen mills, all told, in the Island of Bombay more than inteen mines, an told, in the Island of Oriental, The principal of these were, the Davar, the Eastern, the Maneckjee Petit, the Albert the Royal and the Coorla of the Mararies. the Morarlee, the Albert, the Royal and the Coorla the Morariee the Royal and the Coorla were these, the Morariee the Royal and the Coorla were these, the Morariee the Royal and the Coorla were these, the Oriental, the Maneckjee Petit, the Great Royal and the Goorla were the Morarjee, the Royal and the They were Lastern, the Morarjee, weaving concerns and weaving and their products both spinning and maint stage and their products almost all in their infant stage

bent upon inpping in the bud - it imagined, the rise and progress of Indian cotton spinning and wearing threatening as it did in future to shut up its trade in courser virus in the China market The Disrach Ministry continued to press the Indian Government Ford Northbook a strong free trader and a righteous Aircrost demed it was therefore to his down his Ancros iter rather than weeds to the importungly demands of larceslare. Ford Lytton succeeded ford Nerthbook. He came prepar d to execute the mandate of the Ministry which had appointed him Vicerot But the S could Afrikin Wit and a severe famore intervened so that it was not until the early part of 1878 that the Government of Irana hist announced the repeal of all import duty on the coarser class of cotton fabrics, and a reduction to that on the face class of cotton coards. It was thought that the used policy adopted by the Indian Govern ment would go agreat was tached the growth of more cotton factories. But Manchester counted without its host. The agitation which it had sit on foot and a high had proved so successful in its even was a direct incentive of a most powerful character to the establishment of more fectories. For years of cotton spinning and we same in Bombas, had established beyond the shadow of a doubt that it was the most profitable enterprise in which the citizens could invest their capital

In 1874 Bombay had fifteen cotton factories but in the following year there were twenty siven and this number was increased by nine in the ensuing five years. At the close of 1882 which year witnessed the total abolition of ill import duties are those on liquor and arms there were as many as 36 mills in the Island of Bombay, and 20 in different parts of all India 65 in all. For a clearer comprehension of this historical fact in the industrial annuls of the country, the following table distributing the mills between Bombay City, Bombay Presidency and the rest of India might be profitably studied.—

Number of Mills in-	1576	1565
Bombay Island	20	36
Bombai Presidenci	10	17
All other parts of India	8	16
•		
Total all India	- 47	Gz

The following comparative statement shows the number of spindles and of looms in each period —

	1 <i>576</i> 1882	Total No of spindles		11 00 112 16 20 814
		Increase	-	5 ^0 702
	Pe	rcentupe of Increase		47 33
All India	187G 1982	Total number of looms	-	0 139
		Increase	***	5 03 3
	Po	reentage of Increase		55 07

It is exident from the statistics quoted above that between 1876 and 1882, there was greater activity in the boom line which was not unnatural. Since the time (1878) when Sir John Strickey abolished the duty of 71 percent on the coarser class of imported piece goods, the

millowners charly foresaw that sooner or later the duty on the rest of the piece goods, which was reduced to 31 per cent, yould also have to be repealed. Under the circumstances they took time by the forelock and conmenced importing. Targer number of looms, feeling sure that this branch of the industry yould grow and expand more and more and become most productive. They also found that such cloths as were woven by Indian mills were growing not only more popular in the country but in the markets of Arabia and Africa and that the exports showed a satisfactory increas

A GREAT LIMI FORM AND

The veir 1882 was in more vits than one an epocl maling one Sir Erelesh Biring thin Prince Minister was able to make India a free trade It was the itable that it should be so and is soon as the annaces of the country recovered from the depression through which they had posed the opportunity was rear d to declare all majors duties abolished and exation for the mas is lightened e reduction in the salt duty. In properous condition of the finances had its reflex influence on the trade. The abolition of the import duties paye in immense stimulus to the construction of more cotton factories in Bombay and elsewhere. The promoters were able not to import all machinery, accessories, and stores free of duty. And, as Indian piece roads were forging ahead in the country itself by reason of their chapness and better enduring qualities, we may also received a further impetus. It between 1576 and 1582, the number of mills in the Bombay Island increased from 20 to 36, the additional factories started between 1883 and 1888 was 61. In the Bombay Presidency, too, there was an increase of 9 and of 15 in the rest of India. By 1890 there were in the whole country 137 mills From 17 in 1876 to 137 in 1890 was indeed a hig step. The growth was phenomenal and a record The number of spindles in use in 1890 was 32,74,196 and of looms 23,412, of which as many as 15,95,660 of the former (or more than half) and 13,785 of the latter were in Bombay City

It may be asked, what became of the products of so many mills in all India—both variand cloth. As to the former, the exports to the Straits Settlements, to Hongkong Shangha and other Freaty Ports in China, as well as to Japan tell their own tale, as will be more clearly discerned from the following figures—

Foreign ports, especially those of China, absorbed nearly the whole of the Indian yarn. Thus in thirteen years India had been not only able to push her warn in the China market, but to establish the trade on a most healthy and remunerative footing, quite apart from a larger domestic consumption.

SIOWER GROWTH SINCE 1897 ON ACCOUNT OF PLAGUE AND FAMINI

Between 1890 and 1900 India had to pass through exceedingly severe orderly. Harvests in many prov

were mostly confined to coarse yarns, from 6's to 20's, and coarse cloths for domestic consumption, which required 18's weft and 14's waip And just as half a dozen of these institutions were feeling their way into the Indian and Chinese markets, there was the great enhancement in the price of the raw staple, owing to the American War The United States could not send any quantity of cotton to feed the Lancashire spindles and looms As a result, these had mostly to remain idle There was a famine in that county by reason of the operatives being out of work The situation was indeed extremely grave A relief fund had to be started, to which Bombay merchants contributed considerably, the late Mi Rustomji Jamsetji, the son of the first Parsi baronet and philanthropist, Sir Jamsetji Jeejeebhoy, leading the contribution with a princely sum Bombay merchants in cotton, as well as the cotton growers and middlemen in the districts, were reaping a golden harvest by the enormous and unprecedented rise in prices During the height of the war, and when famine in Lancashire was at its most acute stage, cotton was selling in Liverpool at the high rate of Rs 650 to 700 per candy of 784 lbs Under such an inflated condition of the cotton market, it was next to impossible for the handful of Bombay spinning factories to work at a profit They had all to stop till the prices reached their normal value, namely, Rs 150 per candy, leaving a fair margin for yarns and cloths At the same time, the first early consignments of Indian yarn to China met with such ill success that they had to be returned to Bombay! Thus the few mills in existence had had to pass through no ordinary ordeal at the very com mencement of their operations, say between 1862 and It was little imagined that the mainstay of Indian yarn would, a few years later, be found in that very country whence the earliest consignments had had to be reshipped to the port from which they were originally exported But the Capture of Rich mond brought an end to hostilities in the United States, and at the same time led to heavy bankruptcies of dealers and speculators in Bombay The plethora of money, by way of profits, literally "beyond the dreams of avarice," which were poured into that city, led to the institution of all kinds of 'wild cat' finan cial and trading speculations, the shares in which, no sooner were they allotted, than they rose to a hand some premium. There was no limit to the number of mushroom concerns which were then being daily Speculation in all kinds of shares, especially reclamation shares, which rose to fabulous prices without rhyme or reason, became so rife that it recalled the history of the South Sea Bubble of a hundred years or so before With the restoration of peace in America, the bull market was swept away Huge quantities of American cotton were thrown on the English market, and the fall in prices in Bombay was unprecedented Wagering contracts had to be fulfilled, but such was the insolvent condition of Bombay traders and merchants that there was no hope of a revival till there was a general liquidation the heavy bankruptcies which ensued so alarmed the Government of the day that a special Act (28 of 1865) had to be passed to allow bankrupt estates to be wound up by trustees, but under the inspection of

the High Court, it being deemed impossible that that tribunal could at all cope, in its ordinary insolvency branch, with the numberless estates thrown into insolvency At last, confidence was reestablished and credit revived, so that by 1870 I Bombay's commerce again resumed normality and a new era seemed to dawn by way of promotion of a new development in cotton manufactures The evil of excessive speculation and the disastrous failures in the cotton trade led Bombay citizens to cast about for the promotion of new industries which might be reasonably carried on with profit, independent of disturbing external factors And no industry commended itself more to their practical sagacity than that of cotton They had had some experience of the margin of profit which had been realized during the few years before the outbreak of the American Civil War therefore, thought that while cotton spinning would branch off into new industries, with many potentialities, it was in every way sound, and a profitable investment, with few risks, if carefully and sagaciously managed

FIRST SATISFACTORY STIMULUS, AND LANCASHIRE'S ALARM

That was the principal reason which led to the promotion of fresh spinning and weaving companies It was seen how, after 1867, handsome dividends were realized by investors in the new industry. Another stimulus came by reason of the introduction of the system of remuneration to mill agents. It was the Oriental Spinning Company, then most successfully managed by the late Mr Merwanjee Framjee Panday, which first adopted the rate of one-quarter-anna per pound by way of commission on all the production. The sister institutions soon followed suit, as it was discovered that even after bearing such a heavy burden in the shape of commission, the mills were able to pay handsome dividends The third incentive came by way of China Exports of yarn to that country, which had been resumed, began to prove most remunerative So much so that by 1874 it began to dawn upon I ancashire that with cheap cotton at their very door and cheap labour, the millowners of Bombav were able to compete with their coarser varns in the common markets of China The Palatine county was There was a flutter in the dove cot of the alarmed manufacturers Immediately an agitation was set on foot for the abolition of the import duty of 7½ per cent on all foreign cotton fabrics, almost all from the United Kingdom Lancashire urged the Ministry of the day, with the late Marquis of Salisbury as the Secretary of State for India, to bring pressure on the Government of India for a repeal of the import duty, on the ground that it was protective In vain did the Indian Government, then presided over by the late Lord Northbrook decline to take off the duty, robustly declaring that it was levied for purely revenue purposes, and that the products of Indian cotton mills in no way competed with those of Lancashire The Viceroy observed that no statesman, with the true interests of India at heart could consent to the repeal of the duty and the consequent disruption in the finances of the Empire But Lancashire was not satisfied It was

showed an outturn of 2882 crore lbs, the bulk of which consisted of the following numbers —

	Crore lbs
No 20's	12 97
12's	451
, 16's	2 99
" 11's	2 18
" 18's	1 22
14's	1 33

In this group 20's show the largest production almost equal to No 10's while No 12's come next. The ratio of the production under this class to the total production works out at 51 84 per cent, so that more than half of the total production is made up of yarns between 11's and 20's. The third group shows a production of 9 21 crore lbs, of which the most important counts are—

		Crore lbs
No	22's	2 55
,,	24 S	194
,,	21's	1 47
,	30's	1 27

Both No 21's and 22's are chiefly for Lastern Bengal, while 24's are mostly for the Straits Settlements. This group shows a percentage of 16 57 to the total production. I astly, there are the counts from 30's up to 40's classified as under —

	Lakh lbs
No 40's	41 62
32's	39 12
36's	28 17
34 S	20 44

This group shows a ratio of only 3 per cent to the total production. Summarising, we may say that --

(a)	Counts from	n 11's to 20 s we	re produced	51 84 per cent
(b)	,	i's to io s	•	28 31
(c)	,	21 s to 30 s	,	16 57
(d)		31's to 40 s		3 00

Production was distributed among the various provinces, as follows -

	Crore lbs
Bombay Presidency	42 22
Bengal Presidency	3 84
Madras Presidency	3 01
United Provinces	273
Punjab _	1 16
Central Provinces and Berar	2 63
Total for British India	55 59

As far as 10's and 20's are concerned, the share of the City of Bombay is the largest In 1904 05, the production of 10's there equalled 10 64 croice lbs and of 20's 8 61 crore lbs Ahmedabad, however, surpassed Bom bay in the production of higher counts, above 30's The following comparison may be made —

	31's to 40's
	Crore 1bs
Bombay	0 3 1
Ahmedabad	1 07

That as much as 1 69 crore lbs of finer counts, say from 31's to 40's, were made in 1904 5, is a matter of satisfaction. But seeing that the imports of the same descrip

tion from the United Kingdom and elsewhere during the same year, 1904 5 came to 160 crore lbs, it is doubtful whether India has made any considerable progress in these sorts. The next few years, however, should be able to show whether the country is really making headway in its manufacture of the finer counts, or is stationary. It is not improbable that with the larger number of looms at work at present, added to those which will be at work by the end of the current year, higher counts may be spun for west, as some of the mills are now laid out for coloured goods, which compete with the best of the imported kind from Lan cashire.

Before concluding this part of the subject it may be as well to adduce the latest statistics of the outtuin of yarn. In the observations made hitherto, the year 1904 5 was specially selected to point out the normality of the production, as the year following was one of exceeding inflation. But the statistics for the twelve months of 1906 7 are now available. These show that the total production was 6305 crore lbs classified as below.

			1906 7
No 1's to 10 s	crore lbs		1477
11's to 20 s			35 37
, 21 s to 30 s	,,	-	1107
31 s to 40 s	,	-	1 69
Above 40 s	,	_	I 49

STATISTICS OF CLOTH PRODUCTION

Coming now to the cloth production, it may be premised that it has made rapid and substantial progress during the last few years. Even before the propa ganda of Swadeshism was actively taken up in Bengal the Bombay Presidency at least was unobtrusively at tempting to increase the strength of its loom power Millowners had surveyed the field for the consumption of their cloth, and had come to the conclusion that there was ample room for expansion, in view of the larger demand for domestic consumption. The demand for exports to foreign parts had received a check since 1896 7, owing to both plague and famine, and the branch of the trade has not yet recovered its former In 1896 7 the yardage exported healthy condition equalled 7 46 croies, but it went on steadily declining In the following year 726 crore yards till 1900 I were recorded which, however, rose to 874 crores in 1904-5. In 1905 6, it was higher still, namely, 920 crore yards, while for the twelve months of 1906 7 it was 767 crores. But though the foreign exports are somewhat better of late, after well nigh ten years of depression, there is no question that the total production of cloth by power looms shows a satisfactory increase annually The following are the statistics for the triennial period ending with 1905 6 -

1903 4	Crore yards	43 79	13 19 C	rore lbs
1904-5	 _	5261	1527	,
1905 6	\$1	53 64	15 66	**
1905 6 1906 7	,	68 18	1590	

There was a satisfactory increase of 187 per cent in yardage in 1905 6 over the production recorded in 1903 4, but the upward movement in the 12 months of 1906 7 is phenomenal. The increase is 271 cross

nces were deficient, commencing with the season 1893 94 Bit in 1896 7 there prevailed a severe famine, on the heels of which followed the greater scourge of plague. And as if these dread visitations were not sufficient to retard the development of the country, agriculturilly and industrially, yet another famine more evere than the first, overwhelmed the people in 1000 r But the effects of famine disappeared from the country two years later, though pestilence still ails, without any immediate prospect of disappear Upwards of five millions of people, according to the latest official returns, have fallen victims to the scourge in ten years. If under such distressful and mournful conditions, trade and industries were some what retarded, it is not unnatural that, so far as the expansion of the cotton industry was concerned, there was a diminution Between 1876 and 1890, as stated above, as many as 90 cotton mills had sprung up in different parts of the country, principally in Bombay and Ahmedabad But the number which grew between 1891 and 1905 was not so large There is a record of ar increase of only 60. Of these the share of Bombay came to II, of the Bombay Presidency to 35, and of the rest of India to 14 The total spinning and weaving strength in all India at the close of 1905 was 51,63,486 spindles and 50,139 looms, distri buted as follows -

	Spindles	Iooms
Bombay City	25 60 916	28 07 3
Ahmedabad	5 77 166	7 197
Surat	45 910	420
Broach	70 844	859
Baroda	16 168	259
Narıad	14 54 9	
Wadwan	10 520	206
Viramg ium	32 395	410
Bhavnagar	14 298	24 1
Morvi	1 664	36
Poona	15 874	449
Sholapoor	1 34 520	526
Belgaum	69 324	
Dharwar	51 224	
Julgaum	20 948	413
Rajputana	22 600	252
Berar Brownson	16 336	248
Central Provinces	1 78 236	2,385 612
Hyderabad (Nızam) Central India	55 358	
Bengal Presidency	25 668	224 218
	4 37 283 86 658	
Punjab United Provinces	2 96 906	403
Madras	2 86 844	3 389
Travancore		1 747
	25 560 20 784	20.2
Mysore Pondicherry	29 784 65 024	203
1 Offdicherry	65 924	1 369

The total strength was increased in the year 1906 by 116,109 more spindles and 2,529 looms The total number of hands employed was 208,616, while the quantity of cotton approximately consumed was 70,82,306 cwts

STATISTICS OF PRODUCTION

According to the official statistics, the production of yarn and cloth was as under during the three years ended 31st March 1906

190	3 04	190	40,	190	OS
Yarn	Cloth	Yirn	Cloth	Yarn	Cloth
11.40	11.27	12 23	13 10	19 16	13 19
2 87	0.53	3 01	066	3 53	180
16.	กกร	2 42	ດທາ	. 17	0.07

Bombay Madris Bengal 076 2 74 United Provinces 001 2 99 060 3 44 Punjab 1 10 100 0.03 Central Provinces 0.76 070 and Berar 2 62 0.83 Native States 0.61 o Go 2 24 2 33 073 13 90 16 38 TOTAL o7 97 57 83 15 87 68 09

I CROPPS OF THE

It will be seen from the above figures that during the first two years of the triennial period the total production of varn was nearly the same six, 57.85 crore lbs. In the list year, however, it amounted to 68 og crore lbs which was an upward leap of as much as to 24 erore lbs or an increase of 18 per cent. This was accounted for by the great boom which overtook China in 1905. The demand for varn, specially lower counts, 10's, 12's and 16's was so great that there was an abnormal activity in the industry notably in Bombiy where many a mill is equipped with electric installation and was therefore in a position to work for longer hours. It has been stated that some of those mills worked on till 9 PM Of course, owing to the great demand, there was a rise in prices which left an exceptionally large margin of profit, almost a record one between the raw staple and the finished product

Here it will be useful to analyse the total production of yarn which annually averages about 56 crore lbs It consists of a variety of counts ranging from 1's to 40's Indian mills being practically equipped for low and medium counts fully 80 per cent of their outturn is in yarn from I's to 20's, the rest being made up of counts from 21's to 40's. The official return divides the counts into four classes, and we might follow that classification which is in every way rational, viz, (1) from Nos 1 to 10, (2) from Nos 11 to 20, (3) from Nos 21 to 30, (4) from Nos 31 to 40 Taking the year 1904 5, which was the list normal year of production, the total production, 55 59 crore lbs, was made up of the following counts -

IN CRORES OF LBS

1 2	From 1 s to 10 s 11 s to 20 s	15 74 28 82
3 4	v 21 s to 30 s 31 s to 40's Above 40 s	9 21 1 69 0 13
		11 03
	TOTAL	55 59

Taking group No 1, it appears that fully 13 of crore lbs out of 15 74 crore lbs was made up of 10's, while there was an outturn of 1 16 crore lbs of 6's It will be thus seen that the coarsest kinds of yarns produced formed 28 31 per cent, or more than one fourth of the total output The next (No 2) group

	Brough	Crore lbs t forward	10 63
2	FOREIGN PORTS-		
	Chinese Treaty Ports Assitic Turkey Persia Other ports	13 15 0 38 0 23 0 39	14 15
	Total		24 78

Of these total exports of 24 78 crore lbs the quantity exported from the Bombay Presidency amounted to 23 31 crore lbs What remained for domestic consumption, therefore, was 30 81 crore lbs for purposes of weaving cloth by power and hand looms and for sundry other manufactures. Thus 55 per cent of the outturn was retained for home consumption, and 45 per cent was exported

The total production of the power looms in 1904-5 was distributed as follows—

For Home consumption 46 21 crore yards For Foreign ports 8 74

Total 54.95

The exports were distributed between British and Foreign ports as under —

British ports
Toreign

4 18 crore yards
4 56

7otal

8 74

,

The goods exported came under the following heads —

Grey
White
Coloured
Total

Total

Total

Total

Grey
5 29 crore yards
0 01
3 44
,
8 74
,

Of grey cloth, the exports to the different ports were as under —

 China
 I 00 crore yards

 Aden
 0 76

 East Africa
 0 76

 Abyssinia
 0 67

 Asiatic Turkey
 0 62

 Straits
 0 16

 Persia
 0 13

 Egypt
 0 12

The export of white goods is absolutely negligible. The following countries absorbed Indian coloured piece goods —

 Straits
 1 08 crore yards

 Ceylon
 0 82

 Philippines
 0 5

 Aden
 0 22

 Mauritus
 0 12

 Mekran
 0 11

 Asiatic Turkey
 0 12

Deducting from the total production of 55 croie yards, the quantity exported abroad, namely, 874 crore yards, there remained for home consumption, 46 26 crore yards. The total imports of piece goods during 1904 5 came to 2,287 crore yards, classified as under —

Grey 1 210 crore yards White 584 493

Total 2,287 1

Practically, therefore, the total production of cloth made by Indian mills amounts to but a forty fourth part of the quantity of British cotton fabrics imported into this country. This one striking fact impresse upon us how immeasurably India is still behind. England in her capacity to produce the cotton fabrics required by the mass of the people.

CONCLUDING REMARKS

But, considering the exceedingly backward con dition of the country nearly half a century ago, in point of mechanical and other appliances for the saving of time and labour, and having regard to the fact that the people have only within recent years become alive to the possibilities of an industrial revival, the progress which the cotton industry has made since 1874 is most gratifying. Its future prospects are assured and there is every reason to believe that the march of progress within the next twenty five years will be in ever increasing proportions. Shrewd and enterprising as the majority of millowners are, it may be reasonably expected that they will take a close survey of the existing conditions of the industry and make the most strenuous efforts, with all the energy and resources they undoubtedly possess, to overcome the coming keen competition in the trade They should be alive to the many imperfections yet to be discerned in the working of their factories The internal management demands a radical reform and needs to be purged of the many corrupt practices which are a reproach to their industrial morality Simultaneously the burdensome system of commission on the production, at the rate of one quarter anna per lb urgently demands replacement by a fau and reason able rate of remuneration Every spindle employed for fully 300 working days of the year, yielding an average 20's equivalent to 7 oz per diem, must pay a commission of Rs 2 before the shareholders can get their dividend. While the industry is prosperous and profits are large, this burden is not much felt. But it is well known that in the past, during periods of prolonged depression, wrought by diverse causes, such as overstocks, famine, pestilence, currency alterations, external politics and so forth, the commission has proved a great drag on the meagre profits Indeed, many a mill agent has had to forego a part of his commission or even the whole, in order to pay a decent dividend and pacify the indignant shareholders, who say that the agents eat the oysters while reserving only the shells It is true that a good many of the concerns projected during the last ten years have adopted the reasonable rate of 10 per cent on the net profits, but the majority still cling to their bond With keener competition, and lower prices obtainable for the finished products, it is inevitable that this onerous system of iemuncration should be abandoned

Among other subjects of internal reform, there is the education of the mill agents themselves. An exceedingly large majority are innocent of even a general technical knowledge of the variety of machinery employed for the successful working of their concerns. More or less, they are dependent on their expert overlookers, who are never slow to take advantage of that

yards, equivalent to 205 per cent. The principal description of piece goods manufactured for the three years ending with 19056, and those for the twelve months of 19067, may be classified as under —

	CRORE	S OF YARD	5	
	1903 4	1904 5	1905 6	1906-7
Chadars Dhotecs Drills and Jeans P-inters Shirtings T Cloth	3 89	395	4 17	4 56
	11 31	1253	13 76	17 06
	0 55	093	1 45	1 90
	1 56	285	2 89	2 58
	15 86	1976	18 47	18 60
	8 18	927	11 28	10 80
Sundries Figured and col oured goods (in crores of lbs)	2 35	3 21	1 50	1 34
	2 32	2 65	2 84	2 70

It will be noticed that by far the largest production consists of shirtings, which are no doubt steadily com peting with those from the United Kingdom Taking the average annual production of cloth for the triennial period ending with 1905 6 at 50 crore yards, the annual average of shirtings comes to 18 crore yards, which is equivalent to fully 36 per cent of the total production of cloth in British India Next come dhotees The production in this description has been greatly stimulated, especially during last year great demand which set in for dhotees at the close of 1905, and continued all through 1906 on account of the Swadeshi movement, accounts for this large growth In 1905 6 the weaving companies had not an adequate number of looms to meet the growing demand, but an effort was then made to increase the loom strength, and to this effort is due the excellent results noted in It may be presumed that with the number of looms which are still in course of erection, or likely to be erected by the close of the current year, the production of dhotees will show an even greater The annual average production for the triennial period comes to 1256 crore yards, which gives a ratio of 25 per cent on the total production. The third important item, quantitatively, is T cloth, which shows an annual production, on an average, of 924 croic yards. This gives a ratio of 188 on the total outturn

The distribution of the total outturn of cloth by Provinces may be seen from the following table —

	Cro	ORES OF LBS		
	1903-4	1904-5	1905 6	1906 7
Bombay	41 49	42 22	49 16	43 59
Madras	287	3 0 1	3 53	3 3 5
Bengal	4 65	383	513	4 28
United Provin				
ces	2 99	2 74	3 44	3 1 1
Punjab	1 15	1 16	1 47	1 27
Central Provin				
ces and Berar	2 46	2 63	283	242
Total	55 61	55 59	65 56	5802
Native States	2 26	2 24	2 53	2 12

In the Bombay Presidency, the Island of Bombay and Ahmedabad are of course, the two centres of both the spinning and wearing industries. The following comparative table shows the total production of each in the year 1905 6—

CRORES OF YARDS

	Bombay City	Ahmedabad
Chadars	2 92	0 79
Dhotees	2 92	8 4 5
Printers	0 32	1 47
Shirtings	14 60	1 26
T Cloth	8 57	0 0 5

This table clearly shows that Ahmedabad is the great weaving centre of the country for dhotees and printers, while Bombay takes a strong lead in shirtings, T cloth, chadars, and figured and coloured goods

The latest available statistics for the production of cloth are for the twelve months of 1906 7. These may be seen in the following table —

	Crore yards	Crore lbs
Chadars	4 56	1 55
Dhotees	17 06	3 46
Printers	2 58	O 54
Shirtings	18 60	415
T Cloth	10 80	2 26

The total production, including minor varieties, was 57 18 crore yards, equivalent to 12 95 crore lbs for the twelve months, while the quantity of coloured goods was 2 70 crore pounds

Outgo of Production for Home and Foreign Consumption

So far the growth and expansion of cotton factories and their production of yarn and cloth have been dealt with. The next essential point to bear in mind is their offtake. How much yarn is kept for domestic consumption and how much for export to foreign ports? What is the quantity of cloth exported abroad, also which are the principal ports where both yarn and cloth find the largest market? As to the exports of yarn. Eliminating the year 1905 6, which was an abnormal year of exports, as has been already stated, it may be useful for the purpose of a correct idea of normal exports to exhibit the figures for the three previous years, together with the names of the principal places. Firstly, then, as to the quantity itself.

EXPORTS OF YARN ABROAD

ore lbs	24 85
	25 25
	24 79
Average per annum 1906 7 (12 months) Crore lbs	
	num

The somewhat shorter quantity of yain exported at the close of 1906 7 is accounted for by the abnormal exports of 1905 6, which amounted to 29 76 crore lbs. At the end of 31st March 1907 it was estimated that the stock of unsold and undelivered bales at Hongkong and the Treaty Ports was 3½ lakh bales of 400 lbs each. The production of yarn in 1904 5 was 55 59 crore lbs, of which quantities were exported as follows—

I	British Ports—	Crore lbs
	Hongl ong	9 76
	Straits Settlements	0 69
	Aden	013
	Other ports	0 0 5
	Carried over	10 63

THE CYCLOPEDIA OF INDIA

portant element in cotton industry in its physiological, educational, and economic branches All these defects more or less owe their origin to the semi educated condimore or less one their origin to the semi educated condition of the millowners themselves. They, in the first place, need to be educated to the higher standard of their obligations and responsibilities towards their work people, in order to induce that healthy amelioration so sadly needed. Nothing need be said about the hours of labour which have recently formed the subject of official This matter requires to be very carefully handled, see ng that there are two sides to this question But, broudly speaking, there can be no two opinions as to shorter hours of labour than are generally prevalent in the country shorter the hours, within reasonable bounds, the better It is now an established fact that the shorter the nours, within reasonable bounds, the better greater his productive capacity. The machinery itself greater ms productive capacity the macminery itself gets greater relief, which is the same thing as a prolongation of its serviceable life, meaning renewals at a longer period—an economic fact which is, in itself,

The number of factories whose agents regularly set apart a fixed percentage out of profits for renewals and repairs to their machinery is limited works its mischief in two ways and is to be discerned orks his mischer in two ways and is to be discerned it its worst in times of depression Without the necessary reserve for replacements and renewals, work has to be done with deteriorated machinery which is therefore less productive and less satisfactory, qualitatherefore less productive and less satisfactory, qualitatively, and hable to extra charges for repairs which have to come out of the annual revenue. In other to the contributory to under a dimensional contributory to under a dimensional contributory. nave to come out of the annual revenue in other words, it is contributory towards a diminished and

ınferior output embarrassments are deeper, so that in the long run the And as profits grow smaller, financial emparrassments are deeper, so that in the long run the concern suffers on all sides. The general tendency is to pay a larger dividend and to make but a small, pro vision, if any at all, on deterioration account policy works out its own mischief in the long run policy works out its own mischiet in the long run In Bombay a few mills have come to grief on this account and have had to change ownerships

Co related to the subject is the evil of over capitalization Debts are piled up which have to bear a heavier rate of interest than ordinary Stocks, and even mill machinery and other property, have to be mortgraged, and, unless prosperous seasons follow, and help to get rid of this load of heavily rated borrowed capital and interest, ruin stares a mill in the face Such fulli came over more than a dozen mills in Bombaj six or seven years ago A company whose figure 5 are bad is hable to plunge deeper and deeper in debt, till some windfall of other lucky circumstance intervenes and extricates it But, financially, the majority of Indian mills are in a far from satisfactory condition the keener struggle which is certain to ensue as Japan becomes a formidable rival in the The keener struggle which is certain to Castern market will certainly try many an Indian concern, and the best remedy hes in looking ahead cvery way, it will be seen that Indian millowners should put their house in order. There is a prosperous future yet before them, but the prosperity will, in a great measure, depend on the way in which their



A fibre closely resembling jute is produced to some extent in the Madras Presidency. It is generally known as Bimlipatam jute, and is derived from the plant Hibiscus Cannabinus. Recently it has realised prices equal, or nearly equal, to those obtained for ordinary jute. A crop of the same plant is also raised in the Kistna District, and is known as Kottapam jute.

Besides being used for fibre, the Use of the jute plant is utilised plant in numerous other ways in Bengal Jute leaves and the tops of the plants are sold for use as a pot herb. A vegetable soup is made from one of the varieties, and another variety is boiled, fried or curried in different ways. An infusion of the dried leaves is also used as a bitter tonic by Hindus.

There is no need to enter in detail into the Methods of Cul tivation and Har methods of cultivat ing and harvesting jute It will suffice to say that the plant seems to be capable of cultivation on almost any kind of soil, although on laterite and gravelly soils it does not flourish On alluvial soils it gives a good return, but is most productive on a rich loam Successful cultivation demands a damp climate, without excessive rain, and a high temper ature, particularly in the early part of the season The qualities most popular with spinners are those which are grown on high lands Low lying and chur lands, or embankments, produce the coarser and inferior kinds of fibre Sowings commence about the middle of March, and extend to the end of The reaping of the crop Aprıl depends of course upon the time of Generally, reaping begins about the end of June, and extends to the beginning of October methods of steeping the plant and preparing the fibre for the market are described by Dr Leather, the Agricultural Chemist to the Government of India, in the following notes on a visit to Naraingunge -

"Plant cut from time of flowering until when fruit forms Sometimes growing 3 to 6 feet in water, sometimes crop is almost in dry land. In the former case, boys dive down with a sickle and cut at off and build up the retting he up on the spot. If growing on dry land it is cut

off and carried to water for retting. The cost of cutting comes to much the same in either case, for in the former the cutting takes more time, whilst in the latter extra labour is spent in carrying the plant to witer. Boys take about ten or twelve seconds to cut three or four stems off in four or five feet of witer. The stall's of jute are several feet in height. They are covered with leaves and grass to make them sink. The time given to retting varies apparently with the age of the plant. One man said if the plant is cut in flower, the fibre would be ready for stripping in thirteen or fourteen days. Another man, whose jute was cut after flowering, had steeped for twenty days, and it was then hardly ready. The ham lets generally are small and occupy little spaces of land which are just above the water. The cattle stand under sheds, while the land is under water and get no

"The stripping is carried on at the village site very largely, although some is also stripped in deep water. The man takes one or two (not more) stems, takes off all adventitious roots by running the closed hand down the stem, then gets hold of the fibre at "root end" of both stems at once, and by passing the fingers along the stem, it is separated from the stem. It is then wished in the water to get most of the green bark away, and hung up to dry. Sometimes it receives a second washing, apparently when very little or very dirty water occurs at the aillage site. The leaves are not stripped off but appear to rot under the water during the process of retting, almost entirely. The people say that stagnant water is the best and that retting tales place more quickly in it. As a matter of fact they have to use whatever water is nearest for it would not pay to carry the whole plant far, and also, over a very large area, the land is simply covered by running water."

From what has been written in the opening paragraph, The Export Trade it is evident that the modern industry may be considered, roughly speaking, as beginning with the nineteenth century The plants from which the fibre is extracted had been known in the country from the time of the Mahabharata But prior to the nineteenth century they were not very extensively cultivated in any of the Bengal districts the same time it must be under stood that before the advent of the power loom, the manufacture of gunny bags was a recognised part of the work of the Bengali Indeed, it is believed that a fairly large quantity of the fibre was produced in the seventeenth and eighteenth centuries, both for home consumption and for coverings for exported articles There was also some demand for the manufacture of cordage But there was

no export of the raw material The earliest mention of the export trade occurs in the records of the East India Company From these it appears that in 1793 no less than 100 tons of pat were sent to England The fibre was thought well of, a Committee of the Court of Directors estimating that 1,000 tons of it could be sold annually at from £40 to £60 per ton But shipments of this description were of course merely experiments It was not until 1828 9 that the fibre appears in the official export statistics In that year 496 maunds 30 seers, valued at Rs 620 14 9, were exported to the United Kingdom In the maunds following year 2,293 went to Great Britain, 127 maunds 20 seers to the United States, and 1 maund 26 seers to Batavia The trade went on steadily from this point During the year 1834-35 the exports to Great Britain aggregated 31,328 maunds 34 seers 14 ch, valued at Rs 53,915 5 annas, while about 22 maunds went to Nova Scotia and North America The progress of the trade during the fifty years 1833 to 1882, is well illustrated by the following table, which shows the average exports for each quinquennium —

	Average of five years In cut
1832-33	11,800
1837 38	67,483
1842 43	117,047
1847 48	234,055
1852 53	439,850
1857 ₅ 8	710,826
1862 63	969,724
1867 68	2,628,110
1872 73	4,858,162
1877 78	5,362,267
1882 8,	7,274,000

During the ten years 1882 83 to 1891 92 the annual exports were —

=	
	Cut (000's omitted)
1882 83	10,349
1883 84	7 018
1884 85	8,369
188, 86	7 782
1886 87	8,307
1887 88	9,643
1888 89	10,555
1889 90	10,256
1890 91	11,986
1891 92	8,532

Jute Industry of Bengal

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which is beaten in by a piece of plank called beyno and as the cloth is workn, it is wound oeyno and as the cloth is woven, it is wound up to the roller. Next to this is a piece of wood called thelone, which is used for regulding and smoothing the woof stick is fastened to the warp to keep the

An interesting general account of the native industry is quoted in Dr Royle's treatise on "The Fibrous Plants of India". It was written Just fifty years ago by a Mr Henley, whom Royle describes as "an intell ligent merchant from Calcutta" ligent merchant from Calcutta "
"The great tride and principal employ of jute," says Mi Henley, "is for the manufacture of gunny chuts of chuttes of chuttes of chuttes of chuttes for making bigs manufacture of all the grand domestic districts of Lower Bengal It pervides all classes, and penetrates into chuld on household. Men, women, and children find occupation therein. Boatmen in their nousenoid Men, women, ind containen find occupation therein Boatmen in their ind occupation therein Boatmen in their spile moments husbandmen pil inkeen criticis, ind domestic serv ints every body in fact, being Hindoos-for Mussulmans spin cotton only—pass their leisure moments spin cotton only—press their terms moments distaff in hand, spinning gunny twist. Its distant in nand, spinning gunny twist. Its preparation, together with the wearing into lengths, forms the never failing recommend of that most humble, patient and into lengths, forms the never failing resource of that most humble patient, and despised of created beings, the Hindoor widow, --sayed by I w from the pile but condemned by opinion and custom for the condemned by opinion and custom for the remainder of her days, literally to sackcloth and ashes, and the lowest domestic drude and asnes, and the lowest domestic druge perhaps, her will was law. The manufacture open being to the result of the manufacture of ture spaces her from being technique on lei family—she can always even her bic id. Amongst these educes will be discerned the very low prices it which many manufactures are produced in gunny manufactures are produced in the sengal and which have attracted the Bengal and which have attracted the whole commercial world dem ind of the whole commercial world. There is perhaps no other article so universally diffused over the globe as the Indian gunny big

All the fines and long stapled jute is An one one; ma ione si ipica jute is escrived for the export ti ide in which it be us a comparatively high price. The short staple serves for the local manufac snort striple serves for the focal in thin terror and it may be remarked that given weight of gunny bigs may be pur given weight of gunny bugs may be pur chised at about the same price as a similar weight of raw material le uning sumer weight of rate material realing no apparent margin for spinning and

With the coming of the power The power loom industry factures naturally declined In 1872 loom the indi when the Commission which has been already referred to was making inves tigations statistics were obtained showing the quantities of fibre con sumed by native weavers and rope makers The figures are of course more or less approximate but they are interesting as showing the extent of the native industry at that time For the Dicci District the estimate for the year was 90,000 maunds

for Rangpur 50 000 maunds, for Murshidabad 38 000 maunds, for Maldah 25,000 mannds singh 12,000 maunds and Hooghly 120,000 maunds But this latter quantity may have included some of the mills which had then come into existence in the Hooghly District The first mill had been in fact es tablished a good many years before It was located at Rishra near Ser ampore, and was started 1855 by Mi Geo Ackland owned coffee plant strong in Ceylon The original title of the concern was the Rishia Yarn Mills Co which was subsequently changed to the Rishry Co., Ld I 11878 ? Company styled the Borneo Co Ld, which had been formed to develop the Island of Borneo estab lished another mill at Birnagore about four miles from Calcutta This concern was called by the name of the Company, but in 1872 its name was changed to the Bainagore Jute Factory Co Ld, by which designation it is still known vear 1862 Witnessed the establish ment of the Gourepore Will, which has since become one of the largest and most important In 1869 the India and the Serajgunge Mills were started Four years later a considerable expansion of the in dustry took place four new mills being opened These were the Budge Budge, Fort Gloster Champ dany, and Seebpore Still greater extensions followed in 1874 when Samnuggur Oriental (now Union) Howrih, Twine (now Central) Clive and Asiatic (now Soorah) were started Of these perhaps the most remark able was the Hastings Mill, which is at present the only large privately owned jute mill in Calcutta It was and is the property of Messrs
Birkmyre Bros who were the pro prietors of a mill at Greenock Mr Wm Birkmyre came to the con clusion that Jute spinning and were ing were more likely to be success ful on the banks of the Hooghly than on the banks of the Ch de accordingly transferred his mill to Calcutta, establishing it in the neighbourhood of Serampore It of $H_{\mathbf{c}}$ course derives its name from War ren Hastings in whose villa the managet of the mill hyes \ \ London company established the Ganges Mill in 1875 and two years later

a new Calcutta company Kamarhatty was formed These rapid extensions resulted in the supply of gunnies soon outstripping the demand The consequence wis that n 1880 there was a great de pression in the trade, and several mills were forced into liquidation These were the Calcutta Jute Wills the Oriental Jute Wills, and the Rustomjee Twine Co The first Ackland, who rbout named of these three was the con cern which was originally known as the Rishra Company It had been resuscitated in 1870 is the Calcutta Jute Mills After the col Inpse in 1880, it was bought by the Champdany Co for R. 5 likhs and was re started as the Wellington Mills, by which name it is still known At about the same time the Oriental Will was bought by the Union Co for Rs 350 000 the Rustomjee Twine Co, by Mr Moran who converted it into the Ghoosery Jute Co This concern nas afterwards bought by Mr Chanda Ramjee of Bombay and eventually it became the (cntril Jute Mills Co, Ld under which name it still exists. In 1882 83 the Victoria Honghly Kanknarrah and Titaghur Wills were established They were followed by the I ower Honghly and the Gondalpart and in 1805 06 by the Khaidah
Stanfard National Alhance and Anglo India The Delta Will (into which the old Serijgunge concern Was merged) Was established in 1899 the Kinnison and the Arathoon in 1900, and the Dalla was in 1903. The Alexandra the Vallation and the Lawrence which begin not long since and the B hedere, Khi, Reliance and Auckland, which are still more recent, bring the list up to

It would not be an east matter to ohtain complete statistics of the number of looms and spindles and of the production of cloth and bass in the very early days of the indus try But in the seventies when the mils were just beginning to develop the Rishra Will had about 260 looms the Borneo about 400 the Gourepore about 200, and the India about 100 The expinsion which took place about that time

Many of the particulars in the published in 18 2 by a 13 in 1 property whom they were completed to the East of

From 1892 93 to the present time the following are the figures —

Cwt	(000's omitted)
	10,537
	8,690
	12,977
	12,267
	11,464
	15,023
	9,864
	9 725
	12,414
	14 757
	13 036
	13 721
	12,575
	14,480
	15,970
	Cwt

Calcutta has always been the great centre of the export tride, although fairly large quantities of jute are also shipped from Chittagong The fibre passes through a considerable number of hands be fore it is actually placed on board the export vessel. It is bought from the cultivators by local native By them it dealers up country 15 sold to a class of Calcutta dealers known as balers, who buy the jute in small packages termed drums, and have it pressed in Cal cutta into compact bales weighing about 400 lbs each By the balers the jute is sold through brokers to the shippers, who in their turn re sell it to dealers and spinners in Europe, America and elsewhere The pressing of the bales is done by hydraulic presses, when the jute has been assorted and the "roots" * There are (cuttings) removed about twenty hydraulic press houses in Calcutta, with a varying number of presses at each Some of the largest are managed by joint stock companies, but a number are in the hands of private owners, who bale and press their own jute From the press houses the jute is con veved to the exporting vessel may be of interest to note that before the introduction of hydraulic power, the jute was pressed by wooden screw presses, worked by hand

The affairs of the export jute trade are controlled by the Calcutta Baled Jute Association, which was formed in 1892, and of which all

balers, brokers and shippers are members. No jute can be sold for export except on the Association contract, and the rules of the Associrtion forbid the members doing business with any non-members The United Kingdom is one of the greatest consuming markets, and is is well known. Dundee is the most important jute manufacturing centre in the United Kingdom Germany and Trance and other European countries also take furly large quantities. In fact, the total exports to Continental Europe are about equal to or perhaps a little in excess of, those to the United Kingdom The United States are likewise large consumers, particular ly of cuttings Of the total exports for the year 1904 05, the United Kingdom took 40 1 per cent, Germany 20 1 per cent, France 10 per cent Austria Hungary 6 2 per cent Italy 38 per cent, Spain 18 per cent The United States came third with 15 per cent. The value of the exports for the year 1904 05 is calculated at Rs 120 millions

In an account such as this it is perhaps unnecessary to enter at length into the question of prices. But a brief summary of the prices realised during the past forty five years may be of interest. In the early sixties the export tride begin to assume large proportions, and in 1861 the average Calcutta price of raw jute per bale of 400 lbs was Rs 14 10 annas At the end of each quinquennial period since, the following were the average values The percentages in the second column show the variations rather more graphically than the figures of They are calculated on the basis of the year 1873, the particu lars for which are printed in italics

Year	Price per bale of 400 lbs	Percentage of increase or decrease
186 ₅ 1870 1873 1875 1880 188 ₅ 1890 1895	Rs 17 ,, 23 15 3 ,, 18 ,, 19 ,, 3 ,, 29 ,, 8 ,, 19 ,, 5 ,, 33 ,, 0 ,, 33 ,, 0 ,, 34 ,, 14 ,, 43	94 128 100 107 164 105 183 183 194 238

All the causes of the recent increase in value cannot be specified with absolute certainty. But there seems to be no reasonable doubt that the great development of the local manufacturing industry is one of the principal causes. It must also be remembered that the demand for jute from all consuming markets is steadily increasing with the growth of the trade of the world.

It has been already mentioned thit the fibres The native mann obtained from facturing industry the different fibre yielding plants in Bengal have been from an early period utilised by the people of the province manufactures re-The native solved themselves into three main classes-cordage cloth and paper The first ranged from the thin nest twist to ropes sufficiently thick for hawsers The cloth was of various qualities, adapted to the different purposes for which it was used There was a thick closely woven gunny, which was known is gun tal or chat The different varieties of this cloth were used for packing steds sugar rice and other produce. There was also a thin closely worken fabric, which was common in parts of Maldah Dinay pur Rangpur, and among the Coch and other aboriginal tribes near the foot of the Himilayas It seems to have been used for wearing apparel. There was further a third coarse variety, which was used for the sails of country boats and for packing bulky rticles. The weaving process is thus described by Babu Ramcomal Sen in a well known paper, which appeared many years ago in Vol II of the Transactions of the Agri Horticultural Society -

"Seven sticks or chattee wewing posts called tana para or wirp are fixed upon the ground, occupying the length equal to the measure of the piece to be woven, and a sufficient number of twine or thread is wound on them as wirp, called tana. The warp is taken up and removed to the weaving machine. Two pieces of wood are placed at two ends, which are tied to the ohars, olner, or roller, they are made fast to the khoti. The belut or treadle is put into the warp next to that is the saisult a thin piece of wood is lud upon the warp called chufars or regulator. There is no sley used in this, nor is a shuttle necessary in the soom of the latter a stick covered with thread called singa, is thrown into the warp, as woof

^{*} It should be mentioned that in the jute trade the term 'roots' has not its ordinary botanical signification. It means the lower woody portions of the stems of the plant the "cuttings" are these portions when cut off

The Calcutta Trades Association

THE oldest public body in Calcutta is the Calcutta Trades Association, which came into being on the 5th July, 1830, just twentyfour years after the establishment of the Bank of Bengal, and eight years before the foundation of the Calcutta Chamber of Commerce, which is now merged into the Bengal Chamber of Commerce The immediate cause of the formation of the Association was a public recommendation from the then Chief Justice of Bengal, the Hon Sir Charles Edward Grey, when sitting as a Commissioner of the Insolvent Court in the case of a Subaltern of the Bengal Army, on which occasion Sir Charles Grey expressed himself as follows -"I would advise the Tradesmen of Calcutta to form themselves into an Association, and to investigate the means of those to whom they may give credit, and to employ some person to watch the proceedings of all cases through the Insolvent Court'' But the great progressive cause which led to the formation of the Association was the system of indiscriminate, almost unlimited credit which had for many years obtained in the country, to the serious prejudice of the honest tradesman, and to the manifest disadvantage of that portion of the public who had been in the habit of paying for what they purchased

The first public meeting was held on the 12th June, 1830, at the rooms of Messrs Leyburn & Co This meeting was the outcome of a private conference of tradesmen, held on a previous occasion as the immediate result of the advice tendered by the Chief Justice of Bengal, and above set forth It is interesting to note that of the twenty-six Calcutta firms represented at this meeting, eight are still in existence These are Messrs Dykes & Co Messrs Hamilton & Co, Messrs Mackenzie, Lyall & Co, Messrs Ranken &

Co, Messis Scott Thomson & Co, Messrs Steuart & Co and Messrs W Thacker & Co (now Messrs Thacker, Spink & Co), and Messrs Watts & Co The business transacted at the first meeting was mostly of a formal nature and a Committee was formed comprising the following members -Messrs F H Burkinyoung J Coull, J W Duncan, W T Gibbon, C S Hadow, Jno Hastie, Geo Jessop, McKellar, Geo Parbury, Geo Shearwood, Samuel Smith, R S Thomson, and W H Twentyman The Committee at once set to work and convened a General Meeting for the 5th of the following month The Calcutta trading firms were circularised, and each establishment was requested to send at least one member to attend the meeting which was duly held at the Exchange Rooms Mr Samuel Smith, Proprietor and Editor of the Harkaru newspaper, was called to the chair, and in the course of his address after explaining the origin and nature of the proposed Association, went on to say that the terms of their dealings must be brought into accord with the times and that they must endeavour to adopt measures for the realisation of their outstand-The outstandings at that time were large, and the amount due to ten establishments which had handed in memoranda to the Chairman was no less than 50 lakhs of rupees In these ten establishments, several of the largest firms were not included, nor were the three Auction houses then in existence included in the list, and the Chairman remarked that he was led to believe that the total amount of the debts due to the tradesmen of Calcutta was not less than a crore of rupees, or at the then rate of exchange, upwards of a million sterling

The main objects of the Association, as set forth at the meeting, were as follows —(r) "To encourage the adoption of the system

of ready money payment, which prevails in all other parts of the world, and which enables the tradesmen to sell at lower rates than those of Calcutta can afford to do, from the prevalence of the ruinous system of indiscriminate credit which has obtained for many years to the serious 1 jury of the tradesman, and to the manifest disadvantage of the public

(2) "To define the terms of credit when credit is allowed, and to prescribe measures calculated to ensure payment and guard against future loss where the terms of that credit are violated

of that credit are violated
(3) "To encourage a friendly communication amongst persons engaged in business in Calcutta, especially on subjects involving their common interests an object which appears hitherto to have been neglected"

Mr Samuel Smith was unanimously elected President of the Association, and the Committee at once turned their attention to the objects for which it was founded. The patronage of the Right Hon Lord William Bentinck, Governor-General of India, and of the Judges of the Supreme Court was solicited. That of the Governor-Ceneral was readily granted but the Judges for official reasons, declined. In doing so however, they expressed their high approval of the objects of the Association.

When the Association was first established, the members were divided into grades of Senior Masters Junior Masters, Fellows, Foremen and Apprentices The head officer was, up to February, 1831 designated President, but it vasthen considered that "Master" would be more in unison with the practice that obtained in similar bodies in Europe, and vas consequently adopted The first Master was Mr Samuel Smith, and twenty years later—in 1850—out of respect to him as the original President and the first Master of

has been already remarked upon It was so great that by 1878 79 as many as twenty one mills had been established with 4,645 looms and The nominal 65,882 spindles capital of these concerns was, accor ding to the official figures, about They must have Rs 12 mils employed about 25,000 workpeople The progress, which has been made since, is well illustrated in the fol lowing table, which shows the posi tion at the end of each quinquennial period —

Verr	Mills		Nominal capital	Persons employed	Looms	Spin iles
08 6481	23	Rs	Rs 1,28,00,000	27,494	4,946	70,840
1884 85	24	Ŗŝ	Rs 1,29,00,000	51,902	6,926	131,740
06 6881	56	Rs	1,26,45,000	59,541	7,704	156,866
1894 95	25	Rs	2,47,07,250	74,357	9,638	199,757
0061 6681	34	Rs	Rs 3,58,00,000	102,449	14,119	29,,302
1904 1905	38	Rs	4,66,80,000	133,162	19,991	409,170
9061 5061	39	Rs	Rs 5,06,80,000	144,679	21,986	453,168

The table gives a very fair idea of the enormous growth of the trade during the last quarter of a century But in order to appreciate this growth properly, it is necessary to quote a few statistics showing the production of gunny cloth and bags In 1863 64, when the first mills were getting into working order, 28 123 524 pieces of gunny cloth and bags were exported from Their value was estim-Cilcutta nted nt Rs 48,27,358 In the following year, the total was 52,030,341 pieces, and the value

Rs 53,09,577 From that time onward the trade extended rapidly, as the following statement will show —

Rs 70,646	", 1,42 07,3	", 1,56,26,7	,, 2,17,50,9	,, 3,22,85,6 ,, 47,65,7	", 4,21,34,1 ", 1,08,71,7	,, 4,43,91,9	, 6,31,46,5	,, 9,25,87,1 ,, 8,47,49,4
30,535,034	56,864,546	75,568,724 6,875,910	121,428,904	133,274,213 44,178,915	190,189,181	211,440,570	263,797,790 591,196,923	320,291,633 710,412,867
Pcs	Nos Pcs	Nos Yds	Nos Yds	Nos Yds	$_{ m Vds}^{ m Nos}$	Nos V ds	Nos Vds	Nos Vds
	Bags Cloth	Brgs Cloth	Brgs Cloth	(Bags (Cloth	Bags (Cloth	Bags Cloth	bags Cioth	Bags Cloth
02 6981	1874 75	1879 50	1884 85	06 6881	1894 95	1899 1900	1904 1905	2061 9061

The foregoing figures include both the foreign and the coasting trade The value of the latter is returned, for the year 1904 05, as Rs 1,76,22,611, and of the former as Rs 9,82,27,715 Taking gunny bags and cloth together, 32 3 per cent of the total value of the foreign trade was shipped to the United States, 21 per cent to South America, II I per cent to Australia, 76 per cent to the United Kingdom, and 5 8 per cent to China Of recent years the exports to South America have greatly developed, owing mainly to heavy crops in Argentina, and to the activity in the nitrate trade in other South American countries

The official statistics of power loom gunny prices are fairly complete from 1861. In that year the price per 100 bags was Rs 19 Adopting the same principle as was followed in regard to jute prices in a preceding paragraph, the following are the figures for each quinquennium since that year. As regards these figures, it should be mentioned that, with the expansion

of the trade, the varieties of bags are becoming increasingly numerous The price quoted is consequently the average of a considerable num ber of different qualities of bags

Year	Average price per 100 bags Rs	Percentage of increase or decrease, Base year 1873	
1865	24	109	
1870	28 8	130	
1873	22 0	100	
1875	22 8	102	
188o	19 12	90	
1885	20 2	91	
1890	24 14	113	
1895	24 4	110	
1900	23 12	108	
1905	27	122	

Jute Mill owners and agents in
Bengal combined as
far back as 1884 into
an Association, which
is now known as the

Indian Jute Mills' Association From its inception the Association has been actively engaged in promoting the welfare of the industry, and has undoubtedly done much to advance its interests. There are now thirty-five mills on the list of members, with 26,931 looms at work. All manufactured goods are sold, and all raw jute is bought by mills, on Association forms of contract, which have been drawn up and accepted by the members

But little more remains to be said Jute is now to Bengal what cotton Conclusion is to Bombay, with this advantage ous difference, that while cotton is grown in various parts of the world, jute is a practical monopoly of this province Attempts which have been made to produce the fibre in other countries have not been so far successful, and there is therefore every reason to anticipate that the Bengal industry will continue to develop, as the demand for a cheap covering continues to expand



In those days, when the control of the affairs of Bengal were left to a Governor-General, with the whole management of the empire on his shoulders, or to an accidental Senior Member of Council, the Calcutta Trades Association was the only public body that could voice well-informed opinion, and act as interpreter between the Government and the people That its services were recognised and appreciated by so far-seeing a ruler as Lord William Bentinck is worthy of record, as are also his farewell words to the members of the Association He said -"Having been for many years a warm advocate for reform, I have contemplated with pleasure the great benefits derived from the larger admission into the councils of the kingdom of the intelligence and patriotism of those classes which have previously been in a great degree excluded A somewhat similar feeling is excited by the present occasion It is the evaltation of a class, a new infusion of independence and usefulness working for the benefit of all, which delights me You represent, and worthily, the respectability, the knowledge and enlightened principles of the same class in our own country Your connexion with every branch of business enables you to judge how all separately and collectively are affected by the public institutions and by the measures of those who preside over them and yours is an impartial and independent evidence, of which, if favourable, any Government would have reason to be proud'

Several years before Lord Dalhousie issued his famous Minute in 1853, which recognised the necessity of constructing railways to connect the chief provinces and cities of India, and laid the foundation of the existing system of railway communication, the Association had been alive to the fact that without the material appliances which facilitate and cheapen the means of communication and production, there could be no real progress, and in 1844 the subject of the introduction of railways into India was taken into consideration After considerable discussion it was resolved that the Association was unanimous in its belief that a railway upon some eligible line, taking in its course the most im-

portant stations along the Valley of the Ganges, up to Mirzapore, could not but realise great advantages to the country, and be the means of developing products and resources as yet unknown, in addition to affording facilities to the transit of merchandise and produce A number of years elapsed, however, before these visions were realised, and it was not until old John Company (with all its virtues, which were many, and all its faults, which were not a few, including a rooted objection to improved means of communication), had disappeared from the scene, that

any real advance was made In 1845 the Association, anxious to aid, so far as circumstances would permit, any effort for the adoption of measures calculated to improve the moral and social condition of the rising generation, made a substantial contribution towards the establishment of the 'Calcutta Lyceum,'' with a recommendation that such portion of it as was necessary might be expended in the purchase of apparatus for a course of lectures on "Hydro-Electricity" But a lack of public spirit, together with the restrictions placed by the Government on the officers who were capable of giving attractive scientific lectures, soon put an end to a project which had been started under the most auspicious circumstances Further opposition was encountered from the Government in 1848-50 over a matter of some importance which occupied the attention of the Association, arising out of the discovery of defalcations in the funds of the Ecclesiastical Registrar regarding the assets of certain insolvent estates, received by the Registrar but not accounted for by him Government declined to accept any responsibility in the matter and after much futile discussion, an advertisement was inserted in the newspapers calling upon those who had suffered owing to the defalcations to cooperate with the Association to obtain relief Further, every effort was made to obtain from the Administrator-General a correct list of the claimants on estates who had suffered by the defalcations of the Registrar, but here again nothing but opposition was encoun tered, and the Government of the day made no effort to bring its own

officials to book, or to advance the enquiry in any way whatever petition was eventually prepared and forwarded to the House of Commons on behalf of the Association, and as a result, a Select Committee was appointed which recommended that the claimants should be satisfied out of the funds on account of unclaimed estates, and that in the event of any of the claimants to such estates coming forward subsequently their claims should be met out of the revenues of the country In accordance with these recommendations, a despatch was sent out from the Court of Directors in August, 1850, directing that measures should be immediately taken to carry out the suggestions made by the Select Committee, and "the Judges of Her Majesty's Court in Calcutta" were required to assist in the preparation of a legal enactment whereby the heirs of unclaimed estates, should they subsequently come forward, might not find their rights endangered in any way This was one of the many questions taken up and carried to a definite issue, in which the Association had no pecuniary interest to serve, either as a body, or individually as members

The following twenty years covered a period, perhaps the most important of any in the history of India in its political social, and commercial aspects, since the advent of the British First, in 1854, was created a separate Licutenant-Governorship for Bengal, contemporary with which arose demands for every sort of public improvement, moral and material, in accordance with the requirements of civilised life. Then, while the Then, while the energies of the Government vere being devoted to the newly-organised system of administration, and a vigorous impulse vas being given to material progress, came the revolution which for a time paralysed our Government throughout a large part of India, followed eventually by the transfer of India from the Company to the Crov n Then, in 1870, the Suez Canal, which revolutionised the main lines of international traffic, was opened Throughout this eventful period the Calcutta Trades Association tool an active part in bringing to the

the Association, he was unanimously requested to accept the office of Permanent President, with functions not interfering with the duties of the Master

From its commencement the Association, while never losing sight of the objects for which it was primarily established, has steadily kept in view the importance of attending to matters of public interest, and the Association is a body has always enjoyed the respect of the Government for its

ready and broad-minded advice on the minv questions of magnitude on which it has been consulted One of the very first matters to engage its attention was the provision of meins whereby dishonest debtors who applied for the benefit of the Insolvent let might be effectually opposed The expenses involved in inopposition were at that time extremely heavy and the result, in the majority of cases, mything but such as was calculated to convey the warning desired In response to a memorial sent up by the Association to the Commissioner of the Insolvent Court on the subject of mitigated costs, a new Insolvent Act was passed which provided for the payment of these costs out of the insolvent's estate, unless such opposition proved to be frivolous and vexatious Among important matters of more general interest

that engaged the attention of the Association during the earlier years of its existence, may be mentioned postal reform, the conservancy of the city, municipal government and municipal reform generally, public and private chirities the state of vagrancy in the city, the state of the ghauts, the insecurity of life and property on the river and reforms and changes in the currency. The observance of native holidays, the registration of coolies_and hackeries, the Statute

of I mutation, the idvertisement and conduct of Sherift's sides the state of the Police the prevention of musances the subject of urest under mesne process the state of the I iv of Apprenticeship and the evils resulting therefrom the mode of remittances from the mofusul and the unnecessary delays and inconveniences experienced in the export the import and the transit of goods through the Calcutta Custom House were also matters of public interest that early formed subjects



Mi A H Wallis, Cli

of discussion and representation by the Association

At the end of 1834 a memorial was addressed to the Governor-General (Lord William Bentinek), setting forth the objects of the Association and praying to be recognised as a Public Body with authority to address the Government when they desired and had sufficient and reasonable cause for so doing. This request, so far as it lay in the power of the Governor-

General vas franted on the 20th December of the same year I arly in the follo, im year, I ord William Bentinel's term as Governor-General expired and his departure from India as made the occasion for an Address signed by A Ropers Master on behalf of the members of the Association in recognition of the countermoe the Association had received at his Lordship's hands in its endeavour to protect trade interests and to promote the comfort and sourity

of the inhabitants of Metropolis the William Bentinel reply said that the 15sociation had from its commencement his bist visites for its success The state of credit stood up in a tho trotten footme the fraudulent and unprincipled don profiting by it while the honest buyer and siller vere the victims vas not possible? he "for the single Sud chorts of the honest tradesman to overcome the practice but the whole Trade have effected a thorough reform most creditable to those who devised and accomplished it, and most useful to the public at large! So far the Governor-General had dealt only with matters directly connected with the immediate and separate interests of the members of the Association but he went on to refer to objects of a more public nature in which their interest had taken practical shape, and with

special reference to municipal reform, which even in those early days occupied a prominent place in the programme of the work before the Association, he pointed out that in the rapidly-changing society of the East it was only large associations that could ensure permanency of system, uniformity of execution and perseverance in carrying it on and incorporating with it all useful

improvements

the Commissioners for carrying out the provisions of the Act

With the appointment, in 1861. of a paid, whole-time Secretary. may be said to have menced the practical working of the system of Trust Accounts. which forms one of the most important and useful departments of the Association to the present day It had long been felt that if a public body, such as the Trades Asso ciation, could intervene between Creditor and Debtor, gaining the confidence of both, it would prove a great advantage, and save much trouble all round, but it was not until 1861 that the system of placing accounts in the hands of the Association for liquidation by mutual consent, was fairly organised

In January, 1862, the Bengal Legislative Council was first established, and in the following year, one of the four non official European Members of the Council nominated by the Lieutenant-Governor, was chosen to represent the Calcutta Trades Association, a custom which is maintained to this day Mr F I ennings was the first recipient of the honour, and his appointment as the representative of the Association on the Council was regarded not only as a proof of the influence possessed by the Association, but as a guarantee that the interests of the non-official classes would be studied in the future policy of the Government In 1864, the high rate charged for advertisements by the leading newspapers of the day led the Committee to consider the question of establishing a newspaper that should offer a good medium for advertising at a moderate cost The immediate result was the formation of a Limited Company for the publication of the Indian Daily News, the first number of which was issued on the 1st August, 1864

A proposal came before the Government for the amendment of the Indian Limitation Act of 1877, at the end of 1907 With this pro posal we shall deal in due course It is merely introduced at this point to show that the same question occupied the attention of the Association many years ago, with regard to Act XIV of 1859, and that from 1861 to 1870, the Indian Limitation Act was constantly before the Committee

in some shape or form. In the latter year, a new Bill was published. on which the opinion of the Association was invited It was observed with regret that the Bill contemplated no alteration in the period of limitation prescribed in the original Act for suits in respect to goods sold by retail, but that principle being affirmed, the Bill was valuable as removing certain doubts as to procedure in certain cases Some alterations were suggested in the sections regarding the computation of the time a debtor was absent from British India, and the renewal of debts that had become barred by the Statute, and the Bill as

amended was passed

The earlier work in which the Association took its share has been reviewed in some detail, because it is as well to recognise that many of the public works still in process of construction and development are part of the great scheme of material betterment originated to a large extent by the Association The sanitary and municipal arrangements of the city, for instance, have always been well to the fore in the programme of work that the Association has resolved to do its best to see through, and its insistence, in and out of season, on the necessity for the adoption of sanitary measures in accordance with modern requirements had its influence with the old Justices of the Peace in whom, in 1863, was vested the municipal government of the city, and who carried out much useful preparatory work at a time when Calcutta, according to contemporary writers, was a far from desir able place in which to dwell Much of the work initiated by those old Justices is far from complete, but that is not the fault of the fighting members who have from time to time represented the Association on the Calcutta Municipal Corporation, for they, in conjunction with the representatives of the Bengal Chamber of Commerce and the Port Trust, have done much practical service in advocating the needs of the city

On the more recent work of the Association there is no need to dwell at length As a body, it has been consulted by Government on all important public matters, Imperial or Local, and whether the question be one concerning the

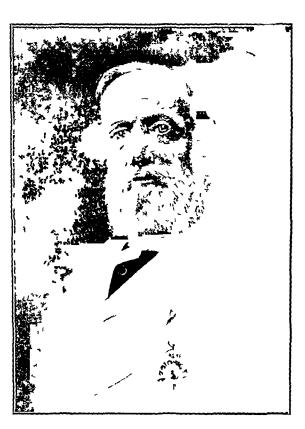
great Codes that cover all India. or regarding the Currency or the Tariff, in which the whole Empire is concerned or on the smaller. but equally important subject of local needs, the views of the Association have always been sought. and the practical value of those views has been acknowledged by the highest authorities on many occasions Among other questions that have been before the Committee, in which the views advanced have prevailed, may be mentioned the improvement in the emoluments and privileges of the Judges of the High Court, the settlement of the system which has provided Calcutta with a service of electric trams, and the costly but idmirable undertaking the extension of the Presidency General Hospital Much attention has been bestowed of late on such questions as the Law of Limitation, Imprisonment for debt, the Bankruptcy Act, the Indian Factories Act, the Merchandise Marks Act, the Indian Tariff Act, the Contract Act, and the working of the Police Courts There are many other subjects of importance on which the Committee of the Association is still engaged, prominent among which may be mentioned the proposal to further amend the Law of Limitation, which is now before the Government, and the proposed establishment of the V-P P system between India and the United King lom These are both big questions, which intimately affect every member of the Trades Association With regard to the proposed V-P P system the same proposal was scotched, but not killed nearly a quarter of a century ago The Law of Limitation, also is an old friend, that has been under consideration on many previous occsaions, until the original Law has been altered almost beyond recognition Concerning the present proposed amendment, the Con mittee of the Association suggests certain alterations whereby the interests of the creditor will be safeguarded

The first Annual Dinner of the Trades Association vas held in 1861, and from that year up to 1884 it vas continued vithout interruption as a yearly function The guests included representatives notice of the Government the everincreasing needs of the general public, as also those of the community which it more specially represented Municipal affairs bulked largely in its programme, and owing to the rapid and continuous increase in size and population of Calcutta, the importance of an improved system of supervision and control over its samitary arrangements, its conservancy, and the other local details appertaining to the good management of large cities, became

apparent It appeared to the Committee appointed for the purpose of formu lating the views of the Association that remedy for existing evils would be found in the appointment of a differently constituted Board, into whose hands the evercise of municipal powers should be entrusted, and in which the rate-payers might have a controlling voice, and a memorial to this effect was submitted to the Lieutenant-Governor (Sir John Peter Grant) on the 11th May, 1861 This led to the appointment by Government of a mixed Committee under Mr Seton-Karr to enquire into the matter, the Association nominating Mr F Jennings, at that time Master, as its representative on the Commission Another member Mr Lazarus, was later on requested by the Lieutenant-Governor The 10in the Commission appointment of this Commission led up to events which form a most interesting chapter in the municipal history of Calcutta,

and the immediate upshot of it was that a new Act was passed in 1863 which vested the municipal government of the city in a Corporation consisting of all the Justices of the Peace for Bengal, Behar, and Orissa and all Justices of the Peace for the town, with a salaried Chairman appointed by Government, in whom all executive authority was vested Many other matters either directly or indirectly connected with the municipal

arrangements of the city, also occupied the attention of the Association within the period above specified, and the market arrangements, the drainage, the water-supply, and street-lighting were all exhaustively dealt with As a matter of fact, many of the conveniences enjoyed under the present system of municipal government are largely due to the thorough and practical manner in which the preliminary details were threshed out by the various Sub-Committees



The late Mi J B KNIGHT, CIE

from time to time appointed by the Among matters of Association more immediate moment to its be mentioned members may Postal rates, the Customs' Act. bhangy charges various duties on imported goods, fraudulent breaches of contract, the Income Tax, the Insolvency Bill and the Insolvency Court, the responsibility of the Post Office for goods entrusted to it, Partnership Law in India, and the delay in

payment of Money Orders The Association was also consulted on the subject of the Gold and the Paper Currency, which resulted in the extension of circles for the Paper Currency, and the introduction into India in 1864 of the sovereign, at a fixed exchange value of ten rupees

In all public measures connected with the trade of the Port the Association has been active and it was one of the first public bodies to memorialise the Government on

the question of the construction of a bridge across the Hooghly In 1867 a further memorial was submitted, urging that the shareholders of the East Indian Railway should be induced to give their con sent to the erection of a bridge, and this memorial was forwarded by Government to the Board of Directors of the East Indian Railway, with a strong recommendation from Government The result was that Mr Rendel Consulting Engineer to the East Indian Railway Board, received instructions to report on the matter, and the outcome of his report was the sanction by the Secretary of State for India of the existing floating bridge It was not, however, until 1871 that the Act was passed which empowered the Bengal Government to proceed with the work, and the bridge was not opened to traffic until October, 1874 When, in 1870, a Bill for the appointment of Commissioners for making im-provements in the Port

of Calcutta was introduced into the Bengal Council, the several provisions of the Bill were carefully considered by the Committee of the Trades Association, and certain alterations they found it necessary to suggest were ultimately adopted The Bill was passed into law the same year, and Mr J B Knight, a Past Master, who had previously represented the Association on the Bengal Council, was nominated as one of

the Calcutta Trades Association rendered it necessary that a Secretary should be engaged whose time should be entirely devoted to the conduct of its affairs, the former system of

paying for merely occasional services having been found unsatisfactory. In 1861 Mr Leman Marks was appointed as the first whole-time. Secretary, and three years later he was succeeded by

Mr John Lindley In 1868 the present Secretary, Mr E Hickie, was appointed and throughout the forty succeeding years Mr Hickie has rendered services of the very greatest value to the Association



THE TOWN HALL, CALCUTTA

of the Civil Military, and Medical Services, the Bar Press, and Commercial interests and gradually, as time progressed and the Association grand in importance, the occasion was utilised as iffording an opportunity for authoritative official pronouncements. Following 1884, however, there ensued an interval of fifteen years, during which no Dinner was held, and the position occupied up to that time by the Trades' Dinner was usurped by the feast held annually by

Scotsmen, on the Day of their Patron Saint In 1899 the Annual Dinners of the Trades Association were resumed, and the function bids fair to recover its lost ground as an occasion on which high officials may ventilate their ideas on public questions At the Dinner held on the 20th January 1908, the principal guest of the evening was the Chief Justice of Bengal the Hon Sir Francis Maclean and he seized the opportunity for the purpose of making a notable reference to the rumours as to the proposed partition of the High Court

Officials of the Association

In the Annual Report for 1850, the Association recorded its appreciation of the valuable services rendered by Mr Samuel Smith whose liberality on its formation, steadfast adherence to its

welfare and interests, and ready assistance under circumstances which required the aid of his experience and judgment, had won for him the respect and esteem of every member. As a mark of respect and approbation he was in August, 1850, as mentioned before, elected Permanent President of the Association he having been appointed President in 1831, when the title of the head executive officer was changed from President.

to Master The list of Masters, from the foundation of the Association to the present time is is follows—

In 1830 and 1831, Mr Samuel Smith 1832 and 1833 Mr I H Burkinvoung, 1834 and 1835 Mr Alexander Rogers, 1836 Mr I H Burkinvoung, 1837, Mr R Scott Thomson, 1838, Mr Samuel Smith 1839 Mr W Furner, 1840, Mr G F Remfry and Mr G Shearwood, 1841, Mr Henry Burkinvoung, 1842, Mr R J Lattey,



Mr H EIWORTHY, CIE (Lieut Col, 1st C V K)

1843 Mr G F Remíry, 1844, Mr Henry Burkinyoung, 1845 and 1846, Mr R C Lepage, 1847 and 1848, Mr J P Parker, 1849 and 1850, Mr C J Pittar, 1851, Mr W Spink, 1852, 1853 and 1854, Mr W Roberts, 1855, Mr R Sloley, 1856 and 1857, Mr W Roberts, 1858 and 1859 Mr T W Payne, 1860 Mr G F Remíry, 1861 and 1862, Mr F Jennings, 1863 and 1864, Mr J B Knight, 1865, Mr John Mackintosh, 1866,

Mr Charles Lazarus, 1867, Mr Gordon Robb 1868, Mr J G Boverman 1869 Mr I F Wyman 1870 Mr Charles Kelvey 1871, Mr Boughton Nevman 1872, Mr I W Brookes 1873 Mr J B Knight 1874 and 1875 Mr Robert Marches 1876 Mr F Jennings, 1877, Mr F Mc Alpin, 1878 and 1879 Mr Chifford J Brookes 1 R 6 5, 1880 Mr J L Cuthness 1881, Mr Geo Irving 1882 Mr D J Zemin 1883 Mr H Prett 1884 Mr A H Wallis,

1884 Mr & H Wallis, 1885, Mr C F I armour, 1886, Mr H Pritt 1887 Mr J G Womack, 1888, Mr H Wallist, 1889, Mr & Acton 1890 Mr H I Ottevill, 1891 Mr J G Womack, 1892, Mr W J By And 1895, Mr E F I ongles 1896 and 1897 Mr I W Spink, 1898, Mr Donald McGrigor 1899 Mr H Lly orthy, 1900, Mr W J Bradshaw, 1901 and 1902, Mr F A Larmour, 1903, and 1904, Mr E B Eden, 1905, Mr W T Grice, 1906, Mr W Smith, 1907, Mr J S Harris, who was re-elected Waster for 1908

The Association has been represented on the Council of His Honour the Lieutenant-Governor of Bengal by the following Members—Mr W Spink, Mr W Geo Parbury, Mr F Jennings, Mr J B Knight, Mr F F Wyman, Mr T W Brookes, Mr

J E Caithness, Mr Geo Irving, Mr H Pratt, Mr A H Wallis, Mr C F Larmour, Mr J G Womack, Mr T W Spink, Mr W T Spink, Mr H Elworthy, and Mr F A Larmour Of these, the Order of the Companionship of the Indian Empire has been bestowed on Mr J B Knight, Mr A H Wallis, and Mr H Elworthy

Early in 1861, it was decided that the growing importance of

engineering, agricultural and other purposes, in paints, oils and var nishes, and in all manner of requisites for mills, factories, workshops and planting industries. In these lines also the chief supporters of the firm are Government in its several Departments, Railways, Municipalities, Steamship Companies, and

famed saw mill machinery of the most modern type, for which they have been awarded sixty Gold Medals at various Exhibitions, be sides highest Awards and Diplomas

Messrs The Silicate Paint Co, Colthurst & Haiding and Conrad Wm Schmidt, all of London, for paints and varnishes, the excel factory is owned by the Nicholson File Co, for a class of tools which are steadily gaining ground in India owing to cheapness combined with excellence of quality

Messis The Willesden Paper & Canvas Works, Ld, London, for a specially prepared waterproof and rotproof canvas, which is much



Messes Ahmles & Co's Premises Church Land Calculta

other large commercial bodies, and although it does a retail trade, this branch of the business is compara tively small

Amongst several valuable agencies held by the firm, the following are the most prominent —

the most prominent —

Messrs Kirchnei & Co, of Lon
don and Leipzig, for their world

lence of which is recognised all over India and Burma

Messrs W B Brown & Co, Liverpool, for steel wire (Lang's Lay) rope for hauling and mining purposes, which are second to none in use in India

Messrs G H Barnett & Co, of Philadelphia, U S A, whose file

in demand by Government for military and other purposes, and is yearly coming more largely into use

Messrs Platts & Lowther, London, for compensating split packing, which the firm has lately introduced into India, and which is steadily working its way into favour



The AHMEDABAD ADVANCE, Ld This is a comparatively new undertaking having been staited as recently as July 1903, under the Agency of Messis Tata & Sons Although it is practically in its infancy, and has not had time to come into line with the other mills of the Tata's in point of profits, it has already paid 8 per cent dividends on the original share value, after making ample provision for deprecation, etc. The paid up capital of the Company is Rs 7,50,000

Messrs AHMUTY & Co, Manufacturers, Metal and Hardware Merchants, Contractors and Agents, 6. Church Lane, Calcutta, rank as one of the oldest business houses in the city, having been established in the year 1815 Little is known of its early history by those now connected with the firm, except that it started purely as a Ship chandlery store, in the days when sailing ships alone visited the poit, after a protracted voyage round the Cape Government at that time found it necessary to charter and fully equip such vessels here for conveyance of its troops home, and it was a comparatively easy matter, in the absence of competition to build up a prosperous busi-It was in connection with such Government contracts for troops proceeding to England and stationed in this country, that the firm later on established a Bakery and Distillery for the production of biscuits and rum as Commis sanat stores, and the two factories known as the "Albion Works" en joyed almost a monopoly from Government in these lines It was, indeed, in those early years of the firm's history, that the foun

dation of its subsequent prosperity was laid As the business devel oped and attention was given, in the progress of events, to industries outside its scope hitherto, an Iron Foundry and a Ropery were acquired, and later on, when the introduction of steam produced a marked change in the conditions of trade all over the world, and when in consequence Government became less liberal in its support of the lines indicated above, the new industries were made to com pensate for the falling off in such contracts, and the Ropery has since continued to form a promin ent feature in the manufacturing business of the firm

It is not quite certain when the ropery known as the Shalimar Rope Works, was first established, the earlier records in connection with the same having been des troyed by fire, but the property came into the possession of the present proprietors more than half a century ago, since when the Works have been enlarged and renovated at intervals, until in 1905 6 they were practically rebuilt, and modern rope making plant with new engines and boilers, all of the latest type, were laid down at consider able expense The Ropery thus equipped is now one of the largest and finest in India Besides the Manager, Assistant Manager, and Engineer, the number of hands it constantly employs, day by day, is about 180, and at busy times The average they are increased monthly outturn at the time of writing this article is something under 100 tons, in spite of keen competition from other similar local factories, but the machinery is capable of doubling this output

The Shalimar Rope Works are yearly under contract to supply manila and country hemp, coir and wire ropes and lines, to the Indian Government Dockyard, the Ordnance, and Supply and Transport Departments, to Arsenals and the Indian Government Factories, to State Railways, Steamship and other Companies Nor are the prod ucts of the Ropery confined to India, they find an outlet in the East in Burma, the Straits Settle Siam. Java, Sumatra, Hongkong, the Philippine Islands, Australia and New Zealand, and in the West in Karachi, Bushire, Aden and South and East These facts alone testify Africa to the excellent quality of the 10pe manufactured at these Works, but apart therefrom, the firm has been awarded several medals for supe riority at the various Exhibitions of local industries held at intervals in various parts of India, latest amongst which is the Gold Medal secured at the Indian Industrial Exhibition of 1906 7

On the Ropery premises is the 'Paulin Factory, which, although it in no way forms an integral part of the Rope Works, is yet an allied in dustry, where 'paulins, tents, awnings, boat and wagon covers, and canvas screens are made up and supplied largely to the several Government Departments, Steam ship Companies, and other large bodies mentioned in the preceding paragraph, not to mention smaller concerns and private enterprises in Calcutta Madias, Bombay and Burma

Apart from the foregoing, the firm's principal business lies in metals, bardware, machinery and tools of all kinds for structural,

ago the affaus of the N W P Club (now the Allahabad Club, Ld) were in confusion, Mr Deans was invited to join the Committee, and under took the task of putting the office in order with such success that the concern has been prosperous ever since Mr Deans is an aident volunteer He joined the Allahabad Light Horse on the first estab lishment of that well known Corps, and was one of the first officers elect ed by the members Subsequently his name was sent up for the command of the Corps and he was duly appointed For many years he spared neither time not expense in increasing the strength of the Light Horse Having thoroughly mastered the details of dull and being an excellent horseman, he was able to put the Corps into a high state of efficiency The excellent annual reports of the Corps testify to Captain Deans' able command At one inspec tion of all the troops in garrison, the fine show made by the Allaha bad Light Horse as the Corps went by at the gallop, drew special encomiums from Sir George White, then Commander-in Chief During Lieutenant Governorship of Sir Auckland Colvin, Captain Deans was appointed Honorary Aide de Camp, and held that position through the tenure of the three succeeding I leutenant Governors, Sir Charles Crosthwaite, Sir Antony MacDonnell, and Sir Jimes I a Touche When he decided to retire to England, he received the thanks of the Lieutenant-Governor, and his name was trans ferred to the Supernumerary List

The ALLAHABAD BANK, Limited, Allahabad Branches at Calcutta, Delhi, Jhansi, Lucknow, Naini Tal, Bareilly, Jubbulpore Sub-Agencies at Amritsar, Hathras and Hapur Established 1865 at Allahabad The Allahabad Bank is a purely Indian concern, Registered under Acts XIX of 1857 and VII of 1860 It has been remarkably successful in its operations throughout Bengal and North-West India, as the following statement of its position shows Started with a paid-up capital of Rs 200,000, the Directors have consolidated its position till now its working capital stands at Rs 3,91,18,000 in 1906,

having been increased by ten lakhs the pievious year Reserve Fund has been built up till it has reached the figures of the capital account, one lakh was added to it last year, making it Rs 15,00,000 in all The Bank's progress has been very uniform since its founding For years past it has paid dividends consistently at the rate of 15 per cent per annum In the same manner the state of the Reserve Fund has increased in solidity, each year marking an increase in the Bank's resources. While the distribution of profits has remained unimpured The increase in the working capital including deposits has been equally steady, over 150 lakhs having been added in the last tive years. The gross-profits for the half year ending 31st December 1905, amounted to Rs 11,59,768 and after deduction for establishment and interest on deposits there remained Rs 2,60,421 to distribute The Bank paid Rs 7,30,068 in interest on deposits during the above half-year The Aullahabad Bank holds a deservedly high position among Indian Banking Houses Mr R Rutherford Deans is the Manager

The AUSTRIAN LLOYDS STEAM NAVIGATION Company was established in Bombay in 1870 The local offices of the Company are in Sassoon Buildings, Church Gate Street, but the Head Office is at Trieste The Company is under mail contract with the Austrian Government Before the opening of the Suez Canal, the activity of the Company was limited to the Mediterianean Sea and the near East, but it afterwards extended its service to India, China and Japan, maintaining frequent sailings bet ween Trieste, Karachi, Bombay, and Calcutta, as well as with China and Japan The Company owns a fleet of 68 steamers, aggregating a total tonnage of about 210,000 tons register, ranging from 370 to 6,500 tons per steamer The Company's services offer, after those of the P & O, the most frequent and rapid communication with Europe Be sides these lines, there are also steamers sailing between Trieste, East Africa and South America

Mr E Scarpa, the General Agent of the Bombay Branch, came to

Bombay in 1890 as an assistant In 1896 he was appointed Agent, and in 1904 he was further promoted, and a ppointed Agent General For some time he was a member of the Committee of the Chamber of Commerce, where he still represents his Company

Messis BAKER, ANSON & Co, Government and Railway Auct oneers and Coach Builders, Cawn pore, sole proprietor, Mr Albert Clement Jones Established in the year 1884 The business premises of the firm are situated on the Mall Cawopore, one of the best situat ons in the town, opposite the Memorral Gardens on the main road to the Civil Lines and Cantonments They carry on the business of auc tioneers, principally for the Govern ment and Railways, but also do a good deal of business in this line with private people They are also manufacturers of harness, saddles, etc., and coach builders and repairers, utilizing good English material In this line they turn out very excellent work in the most modern style Their paints and vainishes are imported direct from London They have a great reputation for their harness and saddlery work as well, which is generally esteemed equal to the best English manufacture They also carry on business as blacksmiths, own ng and work ng a shoeing forge, and, in add t on, they act as general commission agents

 M_r ALBERT CLFMENT JONES sole proprietor of the busi ness of Baker, Anson & Co was born in 1854, at Cawnpore, and educa ted at St Peter's College, Agra His father was the late James Clement Jones, Superintendent of the Budge of Boats by which the troops crossed the Ganges during the Mutiny of 1857 Mr Jones, senior was largely interested in forestry, and was a contractor to Government his let rement he was in receipt of pensions from both civil and mili tary departments Mr A C Jones joined his late father in business, dealing with contracts, building, forestry, etc The father and son were responsible for many public and private buildings in the adjacent On the death of hs districts father, Mr A C Jones succeeded to the business

with engineers against other packings which have so long held the market

Mossrs Schuchardt & Schutte, of Berlin, for lathes, drills and machine tools generally

Messrs S Crawshaw & Sons, Dewsbury, England, for furnish ings of all kinds required in jute mills

Messrs Storry, Smithson & Co, Ld, Hull, for economic, protective and anti fouling compositions for

ships' bottoms It will thus be seen that the business of Ahmuty & Co is a large and comprehensive one, embrac ing a various assortment of stock of reliable quality of English. Amer ican and Continental manufac ture, from which it is possible at all times to comply with Govern ment or other demands at the shortest notice The progress of the firm, from its inception almost a century ago, up to the present time, when it has earned the confidence of the official and commercial classes, has been steady and prosperous, as a result of pains taking labour combined with the sterling qualities of integrity and tact

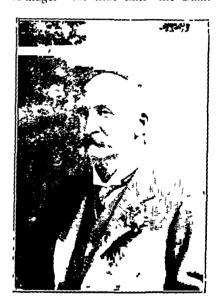
ALLAHABAD BANK, Limited Established 1865 The Allahabad Bank, which now holds a leading position among the Banks of India, was originally started with a capital of three lakhs of rupees, of which less than two lakhs was paid up In the first half year only, ending 31st December 1865, were the Bank's operations unsuc cessful, no dividend being paid for that period, but in the following two years a considerable develop ment took place in the Bank's affairs, and the first dividend of 7 per cent declared at the end of 1907 was only a sign of the great and continued prosperity which the Company has since enjoyed In 1875 dividends had increased to 12 per cent, and since that year have consistently stood at 15 per cent year by year till 1906, for which year 17 per cent was paid The capital in the same period has been quintupled and now stands at 15 lakhs of rupees, paid up The working capital, including deposits. which in 1865 was a little over 23 lakhs, has expanded in a very much

greater ratio, showing the well earned confidence of the public in the institution, and now stands at over four crores,-to be precise, Rs 4,19,75,000 The reserve fund has been built up year by year in a manner, calculated to gain stabil ity in the public regard. It now exceeds in amount the paid-up capital standing at 17 lakhs of It has held this relative rupees position since the year 1892, when the paid-up capital was four lakhs and the reserve fund Rs 14,000 more The reserve has now been built up to 22 lakhs, by the addition in 1907 of 5 lakhs, being the premium on the issue of shares The Bank has also a Pension Fund which now impunts to Rs 1.17.000, to this Rs 20,000 being added annually reserve and pens on funds are held in Government Securities

The great prosperity of the affairs of the Allahabad Bank is shown by the balance sheet of the 31st December 1906 The year's operations resulted in a gross profit of Rs 13,30,313 9 o Depositors pro fited to the amount of Rs 8 51,494 14-6, the balance, after paying establishment, available for dividends being Rs 2,91,903 13 4 The headquarters of the Bank are at Allahabad, but branches have been established at Cawnpore, Lucknow, Calcutta, Delhi, Jhansi, Bareilly, Namı Tal and Jubbulpore In addi tion there are also sub agencies at Amritsar, Hapur and Hathras The I ondon Bankers are-The Union Bank of London and Smith's Bank, and at Bombay, the Chartered Bank of India, Aus tralia and China All the agencies and sub agencies are prosperous Messrs A F Ferguson & Co, of Bombay, are the Chartered Accountants to the Bank's affairs For some time past the Allahabad Bank has carried on large transactions with the Government of India under arrangements with the Court of Wards In this connection the Bank's operations have been beneficent to the landed gentry of Upper India, many of whom have reason to remember with gratitude the assistance afforded to them by the Allahabad Bank, which has enabled them to procure loans at reasonable rates of interest, thus saving their property from the ever bitant usury of the private money

lenders The General Manager of the Bank is Mr Rutherford Deans, Allahabad

Mr ROBERT RUTHERFORD DEANS (Captain, United Provinces Light Hoise), General Manager and Director of the Allahabad Bank, Limited Mr Deans, like so many of the successful business men of India, is a Scot, being a native of Hawick in Roburghshire Before coming to India he had a thorough training in the best banking traditions of Scotland, having served for eight years in the British Linen Bank. In the year 1865 he joined the Allahabad Bank, Limited, as Manager At that time the Bank



Mr R R DEANS

had only been started some six months and was struggling along in a very precarious state. It was due to Mr Rutherford Deans' gen us for banking affairs that the Bank was I fted into a secure posi tion, and in two years after his taking up the management, divi dends were paid, which rapidly increased till now the Bank's shares are among the best paying securities in India Mi Rutherford Deans has been associated with the Allahabad Bank for the whole of its paying career, and still holds the post of General Manager Mr Deans has utilised his capacity for affairs in other directions as well as Banking When many years

He did much to advance the interests of the business, and he not only maintained its reputation and prosperity, but found lessure in the midst of a busy life to devote his attention to Public affairs As a Municipal Commissioner he took an active part in the Council proceedings, and he was an Honorary Magistrate for a number of years As a Freemason he was held in high esteem took high masonic honours, and was Master, of Lodge "Anchor and Wash Hope", With regard to his work With regard to his work as a contractor to the military authorities, General A Walker, formerly Director-General of Ordnance in India, wrote in 1897 — "In bidding you farewell, I take the opportunity of recording the fact that I consider you the best Ordnance Contractor on this side of India" Akhil Chandra was made a Rai Bahadur in 1893 He died at Simla in 1899, aged 49 Babu Nani Gopal Mookerjee, the present head of the firm, is the son of Rai Akhil Chandra, and since the death of his father he has been conducting its affairs with considerable ability In addition to his hereditary business as a military contractor, he has entered upon extensive operations in rice, Jute, and timber, all of which are in a flourishing condition under his management Among noteworthy operations in which the firm has been of service to Government, may be mentioned the China Expedition, for which a very large number of tents were supplied at a short notice, the Burma Campaign, and the Sonthal Insurrection During the Mutiny the firm also rendered valuable services to Government the nature of which has been recorded in Kayes' "History of the

large and handsome premises with a frontage of 120 feet The firm has attained a deservedly high reputation in the manufacture of rings and Jewellery, of all descriptions, challenge-cups, and all kinds of sporting prizes, masonic Jewellery, etc. In the year 1887 Messrs Bechtler Son & Co were appointed Jewellers and silversmiths to His Honour the Lieutenant Governor of the United Provant Governor of the United Frov-inces, and have held that patron-age ever since They carry large stocks of diamonds, rubies, pearls, and every kind of precious stone For twenty-two years consecutively they have issued a yearly catalogue showing all the novelties in their line at moderate prices Mr J C Bechtler is a native of Switzerland, and was apprenticed to the watchmaking trade in his native country After completing his five years apprenticeship he travelled in France, Austria and Switzerland Perfecting himself in his trade 1880 he came to India where he has established himself with such success He is an expert in all departments of his business Mr Bechtler is a member of the Switzerland Geographical Society and the publisher of a Journal devoted to jewellery and precious stones "The Diamond," The branch of the business of Messrs Bechtler Son & Co at Mussoone was opened in 1889, and a large was opened in 1009, and a laist stock of assorted precious stones and Jewellery is carried there There is also a well-fitted workshop for manufacturing purposes The firm take a great interest in sport, and contribute largely in the way of cups, shields, etc, for trophies

BEECHWOOD ESTATE, DARJEELING

This beautiful estate is situated in the very best part of Darjeeling, practically Just between the rail Way station and the Mall 1894 the Darjeeling Municipality wanted to purchase the place for the purpose of making a public Park out of it, but as the present proprietor, Mr C Forstmann, outbid the Commissioners, the property fell to him Immediately afterwards the Government, at the ins tigation of the Municipal Commis sioners, built a road right diagonally across the estate, which road is

now known under the name of Mackenzie Road, and although it may be a fine road, it certainly has cut the estate right in two

At the time when two proprietor purchased the estate there was only one house standing medals, in the whole grounds comprising the whole grounds comprising house known as Beechwood House is one of the oldest in Daijeeling Immediately, after the purchase Ir Forstmann built a small house for himself near the railway station known as Wale Partus, which has since been con siderably enlarged and has been for some years occupied by the Cel tany Club, the members of which belong to the native gentry visit Building operations properly did not begin until autumn 1895 when the five big houses on Auchland Road were built, known as Villa Rheinstein, the proprietor's present Private residence, containing also the office of the Estate, Donkya Villas, Nos I and 2, the Kopic and the White House These houses were Just finished when Darjeeling was overtaken by the cyclone, causing the disaster of the 26th September 1899

It speaks well for the safety of Beechwood Estate, that the only damage done on the whole estate was the demolition of the two green houses situated below Male Partus, but not the slightest damage was done to any of the dwelling houses

As soon as Darjeeling had a httle revived from the effects of the disaster, building operations were recommenced, and during the building season 1901 1902 middle-sized cottages known as Mackenzie Road, Nos 21 23 25 27 and 29 sprang up, as well as a line of 8 small shops on Maclenzie
Road Alloobarie Cottage had Alloobarie Cottage had been built alread; in 1900 In 1902 the two nice houses known as Rhododendron Villas Nos I ard 2, were built It the same time the proprietor, seeing the disadvan tages of the very rough native labour as ulable in the district, got out a fine set of woodworling machines, by means of which he was able to do better, quicker and cheaper work than by the old method, and so the Beech coa Estate Factory was started viere

Messrs J C BECHTLER SON & Co, Manufacturing Silver-smiths, Jewellers, Watchmakers, and Opticians, Allahabad, Lucknow and Mussoorie established in Allahabad by Wr business was Jouquin Carl Bechtler at first in a very small way, for the manufacture of Jewellery and silverware, and was the first business of the kind to be established in India away from the Presidency towns The business rapidly expanded and in ten years' time had so far advanced that it was necessary to erect the present

Babu BENOY CHANDRA BANERJEA, Proportor of the firm of Banerjea Pros & Co. Plumbers and Contractors, Calcutta was for at Ichempanh in the District of Hooghly in 1803. He received a sound education in the local school, whence he matriculated



Babu B C BANELIEA

in 1882. He then moved to Cilcutta where he continued his studies at St Xavier's College His first intention was to enter Government service, but this proving dististcful he started a plumbing and contracting business on his own account in 1888 Starting with a smill capital, by energy and assiduity he soon made the business a success, and it continued to grow in extent and public esteem, until in 1894 he was able to purchase the business of the firm of Messrs Banerjea Brothers & Co, who dealt in hardware, etc. This addition to his business very much enlarged the scope of the firm, which was henceforth called Baneriea Bros & Co, and placed it in a prominent position among the plumbing firms of Calcutta In 1903 the business had so increased that the energetic proprietor was enabled to build the fine three storeyed premises at pres ent occupied by the firm at 45/2/1, Wellington Street From this time forward, Babu Benoy Chandra Banerjea became the sole proprietor,

and do otell hosts for to built ng contract is lost to the vith in quality to the little 111 mumb. tions at se the Mark to dorfo a state of a Market Market British to the In the of A H 5 G Citute, and to be about to add to be of the court ende in the city April the of luce Pat P C P ha found time to 1* Her the mile of the of pri adadet roll thekhierer drei ur h country" r

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Bibu N G MOOFERJEE

on Babu Bissessur Mookerjee, one of the above-mentioned relatives of the founder, became sole proprietor, and the business has remained in his family ever since Babu Bissessur Mookerjee came of a high-

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contact. He rradually extended his busines openin communication with several large commercial houses mother countries with which the friendly relations established by him continue to the present day He was an orthodox lunuu and a firm believer in the performance of Vedic rites. When he found his health failing he brought his eldest son into the business from which he virtually retired. The remainder of his life vas devoted to religious purposes and ceremonies foremost among which was the performance of the rare ceremony of Irraneru on which he expended a lakh of rupees. When he died he left to his family a large fortune and his eldest son the late Rai Akhil Chandra Mookerjee Bahadur became the head of the firm He had received his education at the Hindu School and the Presidency College, where he showed promise of a successful aca demic career but his aspirations in this direction were not destined to be gratified, for at an early age the sole management of the firm fell on him

The BANK OF BENGAL (Lahore Branch) was established in 1866, the head office being at Calcutta. The business of the Bank at this branch, which is conducted on the ordinary principles of banking transactions and on an extensive scale, includes within its scope large dealings with Karachi Mr Claude Willie Cribery is the Acting Agent of the Lahore Branch

Messrs BHAGWANDISS & Co, Bankers, Dehra Dun and Mussoorie This business was established early in the 19th century at Mussoonle and Chakrata and a branch was opened in 1856 at Dehra Dun (made afterwards the Head Office of the business), under the present name and style, by the father of the present proprietore, the late Lala Bhagwandass, and Lala Khush hal Rae The former died in 1874 and business was subsequently the divided, the sons taking the Dehra Dun and Mussoorie business, and Lala Khush hal-Rae, the Chakrata portion In 1884, Mr Jugmanday dass took charge of business as senior proprietor, with h s younger brother,



Mr JICMINDINDASS

Mi Mansumratdass, working under him as junior proprietor. They do a very large and extensive business throughout India in general banking, are also large house and landed proprietors, and have a lucrative timber business at Dehia Dun and other places. They are also proprietors of the Saharanpur banking business, carried on in the name and style of Lallas Santlal and Bhagyandass, their grand father and father respectively. They have agencies in the principal towns in India, and one in London as well.

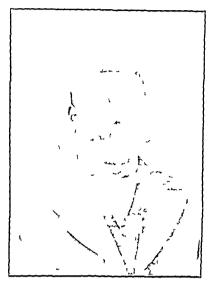
Mi Jugmandav dass was born at Saharanpui in 1864 and educated privately. He has had a wide and varied experience in financial matters, having been connected with banking and meicantile pursuits since 1879. He has formany years taken an active in terest in public affairs, has been a



Mr MINSUMRAIDASS

member of the Municipal Board and an Honorary Mag strate at Dehra Dun since 1885, and has filled the position of the Vice Chairman of that body for several terms. Mr Jugmandavdass is well known for his many charitable gifts and the great interest he takes in educational matters. He developed the Dalanwala estate, purchased by the firm in 1903, and this may now be well termed "another Dehra, chefly for the Europeans".

Mr Mansum atdass undertook the supervision of the business at Mussoorie in 1890, and has been a member of the Mussoorie Municipal Board since 1900. In other respects he has also followed the example of his brother LALLA BISHAMBHAR NAIH, Banker, Cawnpore, is a member of the firm of Lalla Ram Ratan Ramgopal, Bankers, and son of the late Lalla Banjath, Govern ment Treasurer He was born in



Lalla Bishambhar Nath

1871 and educated at the Govern-High School, (awnpore After completing his educational course, he was admitted to his father's firm, of which he is still an active member The firm are very well known in the provinces throughout Northern India where they do a very large banking basi ness Lalla Bishambhai Nath takes an active part in public affa rs, hav ing been elected a member of the Cawnpore Municipal Board He is also an honorary magistrate, a member of the Executive Com mittee of the Dufferin Hospital, and Vice President of the Committee of the Hindu Orphanage As a business man he is a mem ber of the Upper India Chambei of Commerce, and a man of note, both personally and through his influential firm. He is also a Darbarı

Messrs BLACKIE & SON, Limited, Printers and Publishers Head Offices 17, Stanhope Street, Glasgow, N B, Indian Office Warwick House, Bombay The firm of Messrs Blackie & Son is among the most ancient and honournot only building timber is prepared, but ilso furniture of t building, timber, 15 good class and it moderate prices

In the ven 1902 not less than 22 small wooden cottiges were built is made on American principles which we let it very moderate rents and suitable for people with small mems They are all bult with double wills and me consequently cool in the summer and wirm in winter and their special ids in tige that they me till dit is the wood cannot soik in any dimp like the stone and buckwork

In October 1903 the Rink wis Commenced and thurshed in Time

great success by professionals, usuall is by the Duperling and dems, who were formerly fearfully crump don the smill stige of the Town Hill

the small stage of the lower frames, and then any one house has been added on the state, I loyd so to Holly I odge to the lower frames and the control of the lower frames. 40 houses 1 ingorg from the smallest ott iges omt in ng 2 rooms to residence, suit ible tor the well thest and full puriouling can be h d on upplying to the propractor, or he Cheutti agent Int tenints can there rely on being treated generously and with all reasonable

The last addition to the estate is i printing press and t consider ition newspaper known is the

Darfieling Chronicles which is under I urope in management, turns out mst class printing woil on the lifest electrically driven michinery

The estate his ilso got its own dynamo and storige butter es to pro de all houses with deetre entient

Mests BEGG, St III-TRI ND & Co The Campore branch of the styled firm, originally Messrs Begg, Christic & Co Inter Meser Belg Timell & Co, have for the list thirty years been known as Messrs Bugg Sutherland & Co Bugg are chieff interested in the sugar manufacturing industry, which has developed cons derably under their able management The firm

are the Managing Agents of the Cawnpore Sugil Company with a Refinery it Countries and 2 Sugarcane Fictory and Estates in Snim, and of the Champarin Sugar Company, L mited Messrs Begg Sutherland & Co were the concessionaires for the Campore Concessionances for the Chapter of Tramkry and Tree the Agents in that Scheme and are the Agents in that city of the Indian Electric Supply and Traction Company, Limited Among other enterprises in which

the firm are interested is that of the manufacture of brushes

pore Brush Company 1d, which is pone many many Begg Cutherland ander Mests mangement, holds large contracts with Covernment Deputs ments notable the Ordn wer Department

In addition Messes Begg Suther I mil & Co in soli igents in the United Provinces and Behar for Meser Orenstein and Roppel & well known Light Rahan material and the firm the represent Mesers Kil puri & Co & Theetin Debatumint

SHIKI SPI IR record in conce ton it Berkhimsteid Grimmir School underme out to India it the commencement of 1801 with the intention of following 1 circle in prosperits However he wis officed



of the next jeu, so that it was opened on the 4th of June, and im mediately well patronised by all classes, Extens ons had to be added first of all the fine bill, ard 100m, containing three flist class b lliard tables, all made by Lazarus & Co, which was fin shed in the beginning of August of the same year, in October the large stage, one of the largest in the East, was added, but as it could not be ready for the Pujahs of the same year, it was not opened and used until the following June It has since been used with



Mr A B SHAKESEINE

and accepted an appointment with and accepted an appointment with Mess's Begg Sutherland & Co, of Sutherland & W. B. Cawnpore, which was then being the late Mr W B managed by the late Secretary to Webart who was also Secretary to Wishart, who was also Secretary to the Chamber of Commerce A few yens later, Mr connected with the Chamber as connected with the Calmand and Assistant Secretary, and eventually succeeded to the Secretaryship upon Mi Wishart's death in 1904 In the same ven he was admitted a partner of Mesers Begg, Sutherland & Co, and has since managed the affairs of that film in Cawapore

by Henty, Brereton, Strang, Fenn, Gordon Stables, Ballantyne, Frith, Everett-Green, George MacDonald and other well-known writers of Juvenile fiction who were the dehight of younger days There can be no doubt that their success in this department is due to their keen interest in wholesome and healthy literature, as evinced by the excellence of their publications While adding to general literature Messrs Blackie have paid special attention to educational matters, and their catalogue includes textbooks on the whole arcana of human knowledge Their school publica tions include everything necessary for all students, from the infant class to the advanced collegian There are available by the labours of the firm, Infant Primers, "Renders" of every description, Shakespeare Texts (five series the "Warwick" the "Junior School" the "Pic ture," "Red Letter" and the "Plain Text") English, Greek and Latin Classics, Teachers' Handbooks and educational works in French and German, Science, Mathematics, Phil osophy, etc The premises of the firm at Glasgow are hugely ex panded from its early tenement They now extend in three ranges of four-storeyed buildings, addition to surrounding edifices of equal height In these premises all the operations required for publication are carried on, Messrs Blackie & Son undertaking every department of the business and putting none out to contract as practised by other firms in the business The main divisions of the business, Printing, Lithographing and Bookbinding are sub divided into many sub-departments, but all co-ordinated into a highly efficient In addition to the works at Glasgow there is also a large factory at Dublin, where stationery goods are manufactured This is a very important factor in their Indian trade, their Indian Manuscript Books, Drawing Book and Science Note Books being used in all parts of India and the East The Vere Foster Series of Drawing and Copy Books of world wide reputation are also manufactured there Of recent years the time honoured firm was converted into a limited liability Company, but the Directors have abandoned none of the traditions

of the old firm, and the stream of new publications bearing upon all sub jects of interest to meet the present requirements in Fiction Technical, Educational or, Scientific subjects testifies to the energy and ability with which the business is governed The firm have old established branches in London and Dublin, and are also represented in the principal Colonies and Dependencies of Great Britain The volume of Indian busi ness which had been attracted by Messrs Blackie's reputation necessi tated the establishment of a branch in this country, and a house was therefore opened at Bombay in 1901 under the management of Mr O S Mawson who for a number of years had been connected with the Educational side of Messrs Blackie's business Mr Mawson resigned his position in 1907 and was succeeded by Mr H Morrod who for some time had held the position of Assistant Manager His experience and keen interest in matters edu cational and literary are well known in the North of England and ve have every confidence that the Bombay branch will flourish still more under his regime. The demand from India is largely for works of an educational nature and is well served by the firm, which has a notable record in this line Nothing being of greater importance here than the education on correct lines of the awakening Indian population, there is reason for congratulation that Messrs Blackie have undertaken the task of supplying this Empire with works of the unimpeachable excellence they are accustomed to put forward

Messis A BLASCHECK & Co, Export and Import Merchants established themselves in Bombay about 25 years ago, and have their offices in the Chartered Bank Build ings The partners are Messrs L A Blascheck, J Tintner (Europe), Blascheck The latter and H gentleman manages the Bombay Branch The Head Office of the firm is at Frankfort on Main, Germany The Bombay firm have various sole agencies of European manufacturers In the export line they deal principally in seeds and cotton, and for imports they deal in general merchandise. The firm is a member of the Chambei of Commerce, Bombay Mr Hans Blascheck, the partner who manages the Bombay Branch, came to India in 1895, first as an assistant, and in the year 1899 he became a partner He then visited Germany, and came back to India in 1901 to take over the management of the Bombay branch of the business

Mi JOSEF BLUM, Merchant and Agent, 22 24, Medows Street, Fort, Bombay, was born in the year 1869 at Freiburg-i-Breisgan (Germany) and was educated in Germany After completing his education he passed through his military training, and gained business knowledge and



Mr Josef Blun

experience in Germany, and by travelling in various parts of Western Europe In 1894 he pro ceeded to China, and established a branch factory of the Baden Clock Company, Limited, at Furtwangen (Black Forest) In 1897 he came to India to open business on his own account, and to represent the afore said Clock Factory and other German manufacturers commanding the German metal industries He prospered in his attempts, and he hassince been able to import directly all sorts of piece goods, iron, metals and metal ware, etc, from the Continent of Europe, England, America and Japan, to such an extent, that in some lines of these imports he holds the reins of the Bombay market

able publishing houses of the United It was founded in the year 1809 by Mr John Blackie, who was born in 1782 and learned the Kingdom business in the employment of Messrs W D and A Brownie of Glasgow On the retirement of Messrs Brownlie, their business was offered to Mr Blackte, who, for the purpose of constituting the firm under new auspices went into partnership with two friends, Archibald

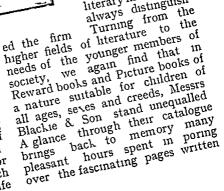
Fullarton and William Sommer ville, the new firm taking the style of taking the style of Blackie, Under this style the firm continued operations till the year .. 1831, till the year 1032, when Mr Fullarton when Mr Blac retiring Mr Blac kie's eldest son John Blackie, Junr (who subsequently obtained the honour of Lord Provost of Glasgow) attained a partner ship, and the firm's tyle was altered to Blackie & to "Black title it has retained ever since The younger sons of Mr Blackie, Senr, W G (the well-known Dr Blackie), and Robert Blackie, were admitted partners at a later date The present Manag. ing Partners are J Alexander Blackie Walter Blackie, B sc, sons and From its days the of the Blackie

extensive connection with the best firm enjoyed an earliest Interaction of the day Moore's in Travels in Italy, was among the earliest publications undertaken by earnest Publications undertaken by Messrs Blackie, the writer, Dr John Moore, being the friend of Burns, and father of Sir John Moore, the bern of Corunna Adam's the hero of Corunna Adam's Roman Antiquities," was another of these early publications of a striking kind, and from the presses of Messrs Blackie also issued the

"Glasgow Geography," edited with great erudition by James Bell of Campsie As typical of the times campsie As typical of the times and the country of publication, a leading place in the firm's publications was held by theological and cations was held by theological and cations was held by theological and cations was held by the publications. religious works, books of reference, and others of a specially Scottish character There was the house of connection between the house of the special specia Blackie and another eminent Scot tish publisher, Robert Chambers,

and Genius of Burns, by Christopher North, with which eccentric genius the firm had the usual trouble gennis the min had the usu'n trouble in the matter of obtaining and printing "copy". The poet Hogg mas another author whose works the firm presented to the public in the firm presented to the public in the firm presented to the public in complete form Ogilvies' origin-perial Dictionary, a vork originally published in 1847 and, revised and augmented by Dr. Annandale, and augmented by Tr. Secured in 1992 to child a standard or revised in 1992 to child re-issued in 1902, is still a standard

work of its kind, the "Imperial Gazetteer, edited by Dr W G Blacby Dr. W. the kie (1850), History complete of India, Civil, Village of India, Civil, Village of India, Contain tary and Social, from the First Landing of the Landing to the Sup pression of the (1862), are the Sepos other examples of the firm's contributions to English literature its earliest years the firm of Messrs Blackie has associ with ated itself progress In each succeeding it has moved with the times and kept its publications abreast with cur rent needs The firm has been able to retain its fore most place by reason of the sound literary abilities, as well as business qua lities of its mem Enterprise foresight in bers literary matters has always distinguish





who edited the "Biographical Dic,

wno edited the Biographical Dic, tionary of Eminent (Land of (1832-34) The famous (1832-34) The famous In the fam's enterprise In the fam is a like the fam is enterprise In the family and the family enterprise In the family enterprise to the firm's enterprise In this case, again, Robert Chambers co-oper-Chambers was also responsible for the editing of the whole work which contained the Essay on the Life looked upon as doubtful owing to extensive damages received in grounding or by collision which, it was feared, were next to impossible to repair For instance, the SS Cash mere and the SS Baron Innerdale This firm claim to be the largest contractors for steamship repairs in the Presidency In this particular branch of the engineering bus ness the most important point is the expedition with which contracts must be ful filled A disabled steamer in Div Dock or lying alongs de the Dock wall, must be got ready as soon as possible, to save loss to the owners and captains who with the interest of their employers at heart make agreements which mean working night and day for the Dock Iron Works The firm never hes tates to signa time contract and, what smore, never fa ls to finish on due date. This facility sidue in a large measure to the fact that over a thousand men are always on the attendance list and with up-to date apparatus and expert workmen they are able to accomplish what, to less well managed and less conveniently situated works, would be almost impossible

The Company are Agents for Suter, Hartmann and Rahtjens & Co's composition which almost exclusively used in the varies of the world for printing men of war, and they hold the record for docking the largest steamer at the Merewether Dry Docks, Bombay-the S S Armenian, 8,825 tons They docked her, cleaned and scraped her from loadline to hull, and painted same with two coats of Hartmann's Red Hand brand pr nt, carrying out all this work in the record time of 24 hours The fixing of new propeller shafts, or refitting pro pellers to shafts, are tasks which the firm is frequently called upon to per form, and the shipping companies know that the work can be relied on Messrs Charles Brown & Co have also in the course of their career been en trusted with repairs of the Japanese, Austrian, Poi tuguese, American and Persian men of-war They are licen sees of the Merewether Dry Docks

Mr CHARLES BROWN, the head of the above-ment oned firm, who is a Member of the Institute of Naval Architects, was born in Argyleshire in 1856, and brought up, together with his brother, to the profession of

Diaughtsman and Naval Architect, at Dumbarton He has travelled all over the world, and has not been without some sensational experiences. Perhaps the most thrilling of these was on the decasion when at the time of the McNel incident in the Soudan, he was the only civilian present and was taken prisoner by a Lieutenant of the Scots Guards in the belief that he was a spy. Of course, immediately he was placed before Si John McNeil, he was given his liberty

Mr Chailes Brown may certainly claim the distinct on of having in troduced Association Football into Bombry. It was due to his en thusiasm that the Rovers' Football Club, whose annual tournament is the



Mr CHARLES BROWN

best supported football fixture in India was established, and he was the first player to kick off an Asso cation football in Bombay. Full of energy, he played for six years in the team, was Captain, and occupied from time to time the positions of centre forward and centre half. The Rovers' Challenge Cup is now worth £100 Gold medals are presented to the winners and silver ones to the run ners up every year. Mr Brown, who has been President of the Club, is life trustee of the Cup, and still takes a keen interest in the game.

SIT JAMES BUCKINGHAM, Knight, CIE (Colonel, Assam Valley Light Horse) There are but few

non official Englishmen in the East who can look back on a residence of upward of forty years in India with as much honest pride as Si James Buckingham who for nearly four decades, has wrtnessed the growth of the Tea Industry in A am from small beginnings to its pie ent vast dimensions, and who, during his lengthy career has enjoyed an unblemished Sir James Buckingham was born on the 23rd March 1843 at Doddiscombsle gh, South Devon, hs father being the rector of that par sh Educated first at Bland ford, and afterwards at Cheltenham, he came out by the old sea route, "round the Cape in the "Nile" in 1864 and soon after his landing in Calcutta proceeded to Assam, 10 ning the Josehat Tea Company, with which he served four years In 1868 he took service with the East India Tea Company as Manager of Dufflating, but only stayed about a year with this company, leaving to join Messrs Berners and Doyne, Barristers of Calcutta, in developing the estates of Amgoorie and Bosbain At Am goorie Sir Buckingham has been 34 years, successfully managing this valuable tea estate Sir Bucking ham married in 1880 Mrs Laura Amelia Bainbridge, widow of Mr F Bambridge, at d'aughter of Surgeon Major Collins, I M S, and by her has two sons and a daughter, the latter having lately been married to Dr Hunt, FRCS, of the Nizam's State Railway As a young man Si Buckingham was a keen sportsman, and either over country or on the flat was a good performer in the pigskin For some years he was the Honorary Secretary of the Jorehat Races He was also an adept in the arts of fencing and boxing, as many who tried a bout or a round with him speedily dis covered, and as President of the local Polo Club he received from the members a handsome silver bowl as a token of the esteem in which he was held From the very first he was an enthusiastic Volunteer, and in 1884 he raised and commanded the Sibsagai Mounted Rifle Volunteers In May 1890 was formed the Assam Valley Administrative Battalion, with Major Buckingham as Com mandant In the same year he

The BOMBAY STEAM NAVI GATION Co, Ld, Bombry, Regis tered Office 72, Apollo Street Fort, Bombay Managing Agents-Messis Killick, Nixon & Co This Company was originally started in the van 1865 by Mi Shepherd He was subsequently joined by Mr Haiee Isma l Hassum, and they carried on the business jointly until the year 1900, when Mr Shepheid retired Mr Hajee Ismail Hassum continued to carry on the business up to 30th June 1906, when it was formed into a Limited Liability Company, Messrs Killick, Nixon & Co being appointed as Managing Agents and the following gentlemer as a Board of Directors The Hop Mr H E E Procter, Churmai, Sir Sassoon David, Kt, Mi Hijee Isma I Hassum, The Hon Mr Vithal las DamoJhei Thackerson, Mr Hajee Ahmed Has sum, Mr Lalbhai Dalpatbhai, Mr P D Pattain, Dewan of the Bhav nagar State, and Mr F A Redde, of Messrs Killick, Nixon & Co The capital of the Company is Rs 60,00,000, divided into 6,000 6% cumulative shares of Rs 250 each and 18,000 ordinary shares of Rs 250 The Company maintain a regular service over 1,200 miles of Coast and employ over 3,000 hands The Company own ten steamers for both passenger and cargo traffic having an average gross tonnage of 1,156 tons each, and eighteen steamers for passengers only, having an average gross tonnage of 229 tons each, 14 steam launches and 144 passenger and jolly boats and lighters All passenger and cargo steamers are fitted with electric light The Company has through booking arrangements for goods with the Southern Wahratta -- 1 711 lunngadh William F Hamilton, the General Manager poined the Company in 1889 The Company carry over one ud a half million passengers and 250,000 tons of goods every year

The BOMBNY UNITED SPIN-NING ND WENNING Company, innited vas established in 1860 The Joint Stock Company was originally formed by Sir Mungaldas Nathoobhov a wealthy Banra merchant of Bombay. The original capital vas Rs 500,000 and the first Board of Directors com

pused Sir Mungaldas Nathoobhoy, Messrs Sapoorjee Dorabjee, W H Crawford, Cursondas Madhowdas, Bhicoo Sazba, and Dr Bhaoo Daji A year later it was found expedient to increase the capital to Rs 7,50,000 and in the year 1863 it was still further augmented to nine lakhs of rupees Under the original management the Company continued till the year 1874, when the present Agents, Messrs Khatau Makanji & Co, took it over, and have carried it on ever since Mills then passed to the management of Mr Seth Khatau Makanji and under his able rule, and after his death under that of his brother, Mr Seth Jairai Makanji, the affairs of the Company prospered the attainment of his majority Mr Gordhandas, the eldest son of Seth Khatau, took over charge of the management from his uncle Seth Jairaj, and commenced operations on a more vigorous scale than He continued in the management till the year 1893, when, his multifarious duties pressing upon him, he made over charge of the entire management of the Company to his younger brother, Mr Mulraj Khatau, who had received a University education In 1901 an extraordinary general meeting of the shareholders of the Company passed a resolution reducing the capital of the Company from Rs 9,00,000 to Rs 225,000 but at a later meeting of the shareholders in the same year, this policy was reversed, and it was resolved to increase the capital to Rs 11 25 000 by the issue of 3,600 new shares of Rs 250 each This resolution was confirmed at an extraordinary meeting of the shareholders held on 25th July At the same time the Agents volunteered to forego their commission on production in favour of a commission of ten per cent on the profits earned by the Company Agents gave a This action of the further impetus to the business of the Company which has continued in a most prosperous financial position ever since. The credit of these successful developments is largely due to Mr Mulraj Khatau

Messis BREUL & Co Cotton Merchants, Head Office, Hornby Road, Bombay (established in the year 1865), branches at Amraoti,

Khangam, Akola and Dhamangam Secretains and Managers for Breul's Campore Cotton Pressing Company at Dhamangam, the Khangam Cotton Pressing Company at Khangam, the Hingoli Cotton Press Company at Akola, Members of The Bombay Chamber of Commerce, the Bombay Trade Association, and Cotton the Bombay Cotton Exchange Partners Augustus Breul and C W Breul, Assistants, A W Campbell and Sorabjee M Nicholson signs per The firm deals exclusively in cotton It receives consignments from farmers and up country dealers in all parts of India It also imports American cotton, executing orders for future delivery in Bombay, Liver pool and New York Mr Augustus Breul, the senior partner in the firm, came to India in 1863, and in 1865 established himself in the Berars, which is noted as the foremost cot ton growing district in India He was a pioneer in advancing the interest of exporters, by introducing direct deal ings with planters, and by erecting cotton pressing factories in the principal up-country cotton markets He thus enabled Bombay exporters to procure not only the genuine growth from each district, but also to do so with greater expedition and at considerably reduced cost In 1878 he opened his head office in Bombay and in 1907 took his nephew, Mr C W Breul, into partnership

Messrs CHARLES BROWN & Co, Engineers, Bolei makers, Iron and Biass Founders, Frere Road, Bombay Founded 20 years ago through the enterpr se of Mr Charles Brown, this firm holds an important position in the ranks of local Eng neers Started in a small way, remarkable developments have suc ceeded each other rapidly and con tinuously, until at the present day the establishment is equipped with all the latest mechanical contrivances for the construction and repair of all sizes and types of steamers. The new works, which have just been erected on ground leased by the Port Trust for 50 years, are situated opposite the Prince's and Victoria Docks and the Merewether Dry Docks, the works are handy, and the resourcefulness and skill of the proprietors and their able assistants have helped to repair, effectively, many a vessel whose next trip was

and

out fires, as experience, as well as the Fire Insurance Offices, have, from time to time, suggested Company is rightly mindful who is building up a Workmen's Pension Fund so that it may be able to pay its operatives, in their old age, a small pension, if they have rendered service during a long period of their life. It has also introduced a system of Piovident Fund, to which officers and employes of the Company can, at their option contribute a certain percentage of then income, the Company paying interest on same and contributing also such sums as it may think fit from time to time

The Company possesses 88 acres of landed property in Nagpui and elsewhere It has mill buildings, apprentices, quarters, recreation rooms, bleach and dyehouses, and ginning factory covering an area of 6,74,459 square feet in Nagpur alone It has, besides, half a dozen cotton ginning factories, together with cetton baling piesses, with land and buildings and godowns appertaining to them, in the cotton districts The total value of the im movable property is Rs 17,96,072 Its plant now consists of 74,924 ring spindles and 1,384 looms, together with the necessary prepar atory machinery, all driven by three pairs of compound engines develop ing 2,400 I H P and one set of til le expansion engines, developing 375 I H P There are 12 Lancashire Boilers, 8 teet by 30 feet each, of the latest type with a working Pressure of 160 lbs per square inch, supplying sterm to these engines Besides the above engines and boilers, there are several others of smaller type for supplying steam and driving machines for finishing, bleaching, and dveing purposes The total value of the movable property 15 Rs 44 86 849 The engines boilers and gearing are all made by Messr, Hick Hargieries & Co of Bolton, the blow room machinery Messi, Lord Biother, of Todmorden Elliph Ashworth of Manchester the firmes by Messrs Platt Bros, of Oldham, the ring frames by Meser Brook and Dovet of Man chester, and Messry Platt Bios and the weaving machinery, partly by

Messrs Platt Bros, and Parth by Messrs Henry Livescy & Co,

The rierage number of work people employed is 4 300, besides contractors' Workpeople average daily attendance is 150 During the cotton season, 430 operatives are employed at the ginning factories h is 6 agencies for Purchasing cot-The Company ton alone and employ, 120 operatives for this work specially has 28 agencies in different parts of India for selling its Jarn and cloth

The average dividend paid on the increased capital during the last 18 Jears has amounted to 1950, per cent per annum which would be equal to 43.92 per cent on the originally subscribed capital

The Company was the pioneer of the Cotton Industry in the Central Provinces It was the first in India in adopting and successfully demonstrating the value of the ring spindle, at a time when even the Linglish spinners looked askance and doubted the vast superiority of ring spindles over throstle spindles, and, for such counts as India spins, over er en mule spindles It was also the first in India to provide its Wills with sprinkleis for automatically extinguishing files So has it been first in India in adopting in its Mills the humidifying and ventilating apparatus of the best kind available It is the only one, so far as is known, having a regular pension and provident fund scheme for its operatives Mr D I Tata is the Wanaging Director and is to be congratulated on the successful results of his business capacity and energy

Mr ERNEST AUGUSTUS JOHN CHIPMAN, Manager of Messrs
Thompson & Thomas & Co (known as the Australian Stores), Bombay Branch, was born at Oxford Terrace in London in 1870 and received his education at the Willesden International College While still in his teens he joined his father on the Stock Exchange London In 1889 he went to Sierra Leone on the West Coast of Africa, as an assistant in the trading deput of the Royal \siger Compant, but after service, owing to frequent attacks of vellor fever was obliged to return home. He next joined the firm of Messrs

Shoolbred & Co Lovion remained with them for My Wirs obtaining his commercial trail is by passing through the various departments. He then start business on his own account 25 furnisher and decorator but subsequently gave it up to Join Mesers Walker, Sons & Co. Ltd. Engineers and General Importers at Colombo He left them after some time and became the Wanager of Wests about a very when he accepted the ofter of th Wingership of the retail Bruch of Messrs Brown & C. Itilate Hatton Ceylon In 1868 Mr Chapman was appointed for the purpose of opening out retul
branch of Messrs Thompson & Thomas & Const Colombo v hich with his vide experience and buciness ibilities, he carried out en successfully that he was requested to proceed to Bombay to open branch business Bombay in Warch 1900, and opened He arrived in a small store in Apollo Street Under his able direction he soon estal lished a growing business which demanded larger and more commodious premises, and the firm moved to their present location Hornby Road in August 1901 Here the business has nearly double i in volume which speaks largely in favour of Mr Chap man who, as Wanager, has devoted his energy and zerl to the interests of the Company importers of all classes of provisions The latter are direct from Australia, America and the Continent, and have branches at Colombo and Singapore vith their Head Office in Melbourne Australia

CHARLEVILLE HOTIL, H_{2ppy} leading Hotel in this charmine hill station The popularity of Musson in resort is so well I no en that it is not surprising that this sanatarium should poss so in the Charleville Hotel the large teath Ishment of its I ind odesid of Bombay, the giteway of India where hits hotel accommodation is where make note: accommodation is a necessity. The Charle all Hotel west and of Mu source of the the started of the started of the source of t the Happy Valle and face of including at orchard to the state of the s gride i where all it from 2 il its

received the decoration of the CIE, became Licuten int Colonel in 1891, Hon A D C to the Viceloy in 1895, returng is full Colonel in 1807. As a member of the Volunteer Conference held in Calcutta during 1892 Colonel Buck ingham did much to jid its deliber ations his experience in volunteer ing as connected with ter plinters being of very considerable practical use Colonel Buckingham has had the raie honour of being twice up pointed Additional Member of the Viceroy's Council, first in 1893 4, and again in 1901. He was specially selected to represent the let In dustry in the Imperial Legislative Council when the Government of India decided to amend the Act of 1882, relating to labour on ter estates His extensive know ledge and unrivalled experience of the circumstances and conditions of the emigrant labourers were willing ly placed at the disposal of the Government, and he was con spicuously successful in representing the views of those engaged in the industry

He was Chairman of the Assam Branch, Indian Fea Association, and Honorary Magistrate of the Sibsigar District for about fifteen years As regards the former, the flourishing state of that branch of the Associa tion is a further testimony to his fostering care and unremitting attention In March 1902 Colonel Buckingham was the recipient of a richly deserved honour at the hands of the General Committee of the Indian Tea Association, as in that month he was presented with a service of silver plate and a very handsome Chippendale clock, which had been subscribed for by them in recognition of Colonel Buckingham's great services rendered to the Tea On his retirement in Industry April 1905, the Indian Tea Associa tion and the proprietors and agents of tea gardens again showed then appreciation of Colonel Bucking ham's strenuous efforts to protect the interests of the guild to which he had devoted so many years of his life, by entertaining him at a public dinner at the Saturday Club, Calcutta, and by the presentation to him of a purse of gold, amounting to £1,100 It would be a well nigh impossible task to place on record the many and valuable services

Colonel Buckingham rendered to the industry during his long and honourable connection with it, and his strong determination to put up with no injustice to the cause he advocated made him my duable to the great Tea Industry of India in general and of Assum in particular On the 27th June 1906 Sir Junes



SIT JAMES BUCKINGHAM

was appointed Secretary to the Indian Fer Association (I ondon), Office 5, Fenchurch Street, London He received the honour of knighthood in 1906

The CENTRAL INDIA SPINNING, WEAVING AND MANU FACTURING Company, Ld Bombay This Company was formed and registered in Bombay in 1874, with a Capital of Rs 15,00,000, divided into 3,000 shares of Rs 500 each, and is worked by the Agency of Messrs Tata and Sons

Its Factory is situated in Nagpui, Central Provinces, and is called the "Empress Mills". The Mills started working in 1877, when they were equipped with 15,552 throstle and 14,400 mule spindles and 450 looms, all driven by a pair of compound engines, capable of developing 800 I H P

The success which has attended the working of the Company is unique in the annals of the Indian Cotton Industry The Company has, out of its profits, added Rs 31,87,500 to its Cipital giving fully paid up shares free to the shareholders in proportion to their original holdings and thus rusing the Cipital from Rs 15,00,000 to Rs 46,87,500

It his pad Rs 133 29 351 in dividends has Rs 172 042 as Reserve Lund Rs 20 98 611 as Depreciation Fund Rs 558 330 is Insurance Lund Rs 156813 as Workmen's Penson Lund, and Rs 35 352 is Provident Lund bringing the total sum of Lunds to Rs 33 21 145 Thus the total profits made up to 30th June list amount to Rs 19838029 or more than thirteen times the original capital The original shareholder has consequently graned by bring the first fortunite illottee of a shire in this Company 205 shares free and his first investment of Rs 500 is thus with these 205 bonus shares added worth to him Rs 4773 at the present rate of Rs 1 565 and has brought to him besides Rs 4,113 in the shape of dividends

The Company intends to build up a large Reserve. Fund with the object of being able to pay for one yeu at hist a dividend equal to the average of ordinary years, in the contingency of a fire causing stoppage to the working of such a large mofit earning concern as this

large profit earning concern as this. It has adopted the principle of setting aside adequate sums for depreciation of property and though nearly the whole of the machinery has been renewed—the best and newest of its kind, with all the latest improvements, having recently been set up and the buildings kept in thorough good repair so as to be as new to day as they were twenty seven years ago—the Depreciation Fund still stands at a respectable figure, is given above

The property of the Company being extensive, the annual premium of Insurance comes to a very large sum, and the Company contents itself with partly insuring it with the Insurance Offices and carrying the remainder of the premium to the credit of its own Insurance Fund, so constituting itself to some extent, its own underwriter. It has been most careful in taking every possible precaution against fire risks, having provided automatic sprinkler installations all over the mills, and all other apphances for putting

rables required for the table are grown The grounds, which extend to 23 acres, also comprise cow houses, piggery, poultry farm and an up to date dary, the whole form ing a valuable ficehold proper'y The Hotel itself contains over 200 rooms in which are included drawing rooms, ball foom billiard foom, smoking, card and reading rooms A post and telegraph office is attached to the premises The excellence of the Charleville Hotel is emphasized by Royal favour this being the only hotel in India which Her Royal Highness the Princess of Wales honoured by staving at during her Indian tour in 1906 The original building of the Hotel dates back to 1842, in the year 1857 the building was utilized as a Girls' School, and it was not till 1873 that the hotel business was started on the premises by Mr Hobson, Manager of the Mussoonic Bank at that time and proprietor of the Happy Valley Estate The business was continued under this pro prietorship until the year 1881 when the Mussoone Bank acquired it and carried on the affairs of the Hotel for t couple of years. In 1884 the Bank leased out the bus ness to two business men of Mussoone who conducted it with the aid of Mr Henry Wutzlei as Manager with one third interest in the con cern After two years M1 Wutzler purchased the Hotel and good will from the Bank as a going concern Under Mr Wutzler's propertorship the premises have been much in creased in size, and the business has been so built up by able manage ment till now, as previously said, it is the largest hotel establishment, outside of Bombay, in British India

The CRITERION RESTAU-RANT, Mussoone This establish RESTAUment, also the property of Mr H Wutzler, is centrally situated in the town of Mussoorie opposite the Band Stand and Public Library Wutzler acquired the Restaurant in the year 1885, and carried it on for ten years till 1895 when he rebuilt it in its present form. Its convenient situation renders it a favourite resort with the inhabitants and visitors of Mussoorie for refreshments, dinnei parties, dances, for all of which it has excellent accommodation Its proximity to the band stand increases

the attractions of the admirable quality of the entertainment provided The Restaurant is a fine substantial two storied building

Mr HENRY WUTZLER, Pro prietor, Charleville Hotel, Mussoorie, was born in Saxony, Germany, m the year 1853, and educated at Leipsic. He has had a world wide experience of hotel business, and during his time in India has catered for the most disunguished guests No fewer than eight Viceroys have testified to his skill, and among the Commanders in Ch ef for whom he has catered are Lord Roberts Sir George White Su W Tockhart Sir P Palmei and Loid Kitchenei



Mi HINRY WUTZIIR

He catered for the Tsar of Russ a when he toured India (prior to his coming to the throne), and among other Royal personages for whom Mr Wutzler has catered are His Imperial and Royal Highness Franz Ferdinand, future Emperor of Austria, the late Prince Albert Victor of England, and H R H the Duke of Connaught from whom he received a decoration He was also in charge of the principal catering for the tour of T R H the Prince and Princess of Wales during their recent visit to India, which contract was extended over the whole of the tour lasting four months, and for his services he received the Royal Warrant of Ap

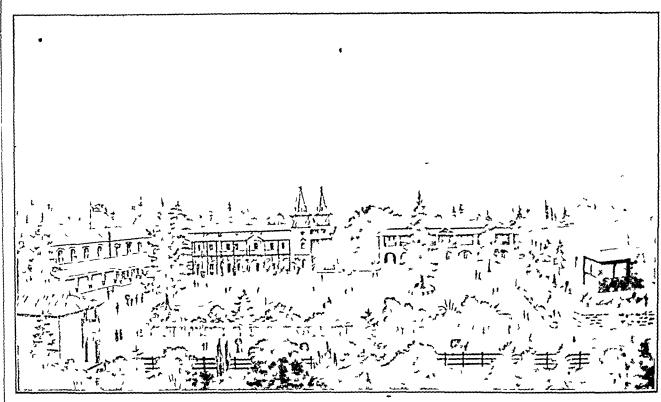
pointment as Caterer to T R H Mr Wutzler was a member of the Board of Commissioners for Mus soor e for twelve years, and retired from this public service in 1903 He is one of the oldest members of the Foreign Society for Hotel

WUTZLER'S ROYAL HOTEL. Lucknow In addition to his Mus soor e enterpr se -- the 'Charleville Mr Wutzlei in 1899 pur Hotel chased the old original building at Lucknow which he has now converted into the fine modern hotel bearing the above name There remains but little now of the original building Mi Wutzler, on acquiring the property pulled down most of it, and acconstructed the whole in the most approved up to date tashion, adding very considerably to the size of the establishment The-proof blicks and non enter largely into the construction of the new buildings There are about cighty 100ms in the Hotel, with State rooms dining, drawing und blliard rooms and reception 100m The premises are surrounded by large and beautiful garden grounds There are numerous stables and coach houses attached The Hotel with its grounds is one of the beauty spots of the North West The enterprising proprietor intends introducing electric lighting throughout the hotel buildings. The grounds cont un lawn tennis courts and carriages of all kinds are kept on the premises. The cooking ranges and general culmary arrangements are maintained on a modern scale in the French style The Hotel is open for the cold season from ist October to 31st March under Mr Wutzler's personal supervision The propiletor spares no pains to add to its conveniences with constant improvements

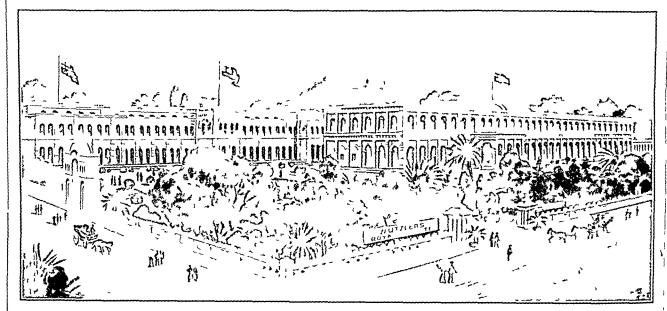
Mr Wutzler has recently formed his two Hotels and the Criterion Restaurant into a Limited Liabili ty Company, with a capital of nine lakhs of rupees, and, judging from the successful financial working of the last 24 years, the shares should be a valuable and desirable invest

ment

Mr DOORGA CHURN CHUN DER, the senior partner of the firm of Messrs Herbert and Chunder, is



CHARLEVILLE HOTEL MUSSOOPH



ROYAL HOTEL LICENOW

was the second Banta who ras personally honoured by the Governor of Bombay in the regime of the East India Company The surname, Burbling meins twelve brothers who had all joined together in one trade. He received his education at the Chandanwady Hach School is fir as the 4th Standard and then joined the Liph astone High School where he matriculated and after wards attended the Liphinstone College for the prevous eximina tion for exert only when he had to leave it to enter business. He vis, from 1887, in the Insurance busine's for nearly 17 years, where he secured varied experience in the Insurance line and had twee the sole manage ment of six or seven Insurance Companies. Firly in 1905, he came in contact with Mr H O Coates and started a joint busines under the style of I B Contes & Co

The COMMERCIAL BANK OF INDIA, Junted, established ats Lahore branch in 1897, its head office being in London Capital, Rs. 23,90,550 and Reserve



Mr II I Dis

Rs 1,00,000 The business of the Bank is conducted on ordinary banking principles, and the range of its influence may principally be defined as between Karachi and London

Mr Harry I dward Day, Agent of the Lahore Branch, was born in I ondon in 1879 and received lie education privately at Bedford. After completing his education he entered one of the largest firms of chartered accountants in London and for three years received his practical training in accounts. In 1899 he joined the Commercial Bail of India Limited, as in assistant at the head office, London and in 1990 he was transferred to India, under Mr. R. Murray at the Calcutt Office.

He was not posted to the Karacha Branch, in the capacty of Account ant, where he remained for about three year. In 1906 he war appointed as Apent to the Lahore Branch and tool charge in the ame

COMPIOIR NATIONAL D'ISCOMPIL DE PARIS (Lench Heid Office -14 Ruc Office, Paris Bombay Bergere Isplande Road Istablished in India in the year 1866. Minager Mr I Combe Branches in all prin capal towns in France, Junis New Orleans Melbourne Sydnes all Orleans Melbourne Sydne, all principal toxins in Madagasear London Office - 52 Threedneedle Street I C London Binlers Binl of England Capital, \$6000000 The Bank does all ordinary bus ness in Banking Drafts and letters of credit are issued payable if ill chief commercial towns of the voild driveller attention is especially drawn to its letters of Credit Department in Pars at the Branch Office 2 Place de l'Opera, in the very centre of the fish on able quarter of Pars on the Bouley ands from the Grand Opera and within casy reach of the principal hotels, the itres, and shops Writing reading rooms telephone ill necessary arrangements for recoving and despatching correspondence exchanging money letting sifes or parts thereof, wherein trivellers can deposit valuables they do not wish to Leep in hotels, strong rooms for the storage of heavy luggage, etc., are provided. The Bank is a member of the Chamber of Commerce, Bombis

Mr. I UCH N. COMBL. Agent, Comptour visional d'Escompte de Paris, Bombay Branch was born in Paris in 1873. He was educated also in the same city. After completing his education he joined

the Irench Buil in the ven 1888, at the Heid Office in Pr. He served the same Buik in London in the ven 1860, in Nev Offician in the ven 1860, and in Cilente in the ven 1900. After this thorough a perionee in Bunking he



Mr. I. Com

vis sint to Bombis in 1933 a Acting Miniger, and in the year 1906, on the 1st of January, he was appointed Agent of the Bombis branch. He represents the Bink in the Chamber of Commerce, Bombis

Mes is CORY BROTHLRS & Co. 1d. one of the Lugest firm of Colliery Proprectors and Coal Merchants in the voild have their Heid Offices at Bute Docl's Cir. dff and 3 Lenchurch Avenue London They have coaling stations at all the principal ports of the voild Their Indian Office is situated at the Royal Insurance Buildings 10 Church Gate Street Fort, Bombas They are also Agents for the Burr d wi Coal Company, I muted, of Calcutte and Managang Agents for Shivra pur Syndicite, Limited - Their cible iddiess it ill ports is "Cory" The Indian Depot was etablished in 1899 for the sile of Cory's and Cory's Aberdare Merthyr Merthyr Welsh cod, and for the purpose of carrying out bunkering contracts he Agency for the Burrakur Coal Company vas addea

the youngest son of the late Babu Mohendro I all Chunder, and a descendant of the well known Dalal family of Chuckerbere, near (al cutta where he was born in the month of October, 1870 — The Dalal



Mr D C CHENDLI

family claim gient untiquity and a high social status Doorga Churn Cl ui der lost his father when he was only one year old and when he had finished his education he served his period of probation in the service of a local jute mill. At the close of 1894 he entered the service of several tea companies, notable amongst which was the Holta Tea Company, Ld, whose then Manager, Mi Heibeit Comp ton, instructed him in the details of the cultivation and manufacture In 1895 he succeeded to the firm of Dawson and Co, and became its sole proprietor till 1905 The firm having suffered heavily in 1898, owing to the advent of plague which, by dislocation of labour, upset many trading establishments in Calcutta, Mr Chunder started a colour printing business, which he afterwards amalgamated with that of Mr Thos Herbert, the style of the firm being now known as Heibert and Chunder

This firm quickly made its maik by turning out really high-class productions, and securing a large share in the hthographic trade of Bengal and in consequence of the untiring energy, industry and perseverance of Mr. Chunder, it now occup es a high position amongst cognitic establishments and is replete with the most up to date appliances the machinery being worked by electricity.

Mi Chunder is also the sole proprietor of the firm of Doorg's and Co which has considerable dealings in imports and exports. He is also agent for several texplantations, etc., etc.

Messs 1 B COVIIS & Co Merchants and Government Contractors 103 Hornby Road Fort Bombay Istablished in January 1906 Partners H O Coates and Luxundas Dwarkadas Barbhaya



Mr II O CONTIS

The firm deal principally in Man chester goods, but also do a large import and export trade with the Continent. They supply the Army and Government Departments with a fast-dyed khaki drill, of which they have the sole monopoly in India, and also cater for all Regimental and Departmental requirements. Their Colombo Agents are J. Whitehead & Co., in London they are represented by Musgrave & Co., David Midgley & Sons Manchester and Bradford, Ledward and Taylor, Manchester, Samuel Ogden & Co., Manchester, Kail Festin, Esq., Hamburg, Klatzer

& Co. Amsterdam. The firm are Sole Agents for the Stolzenberg Patent Lile Co. and the Pantelegraphy Publisham Co. 1d., of London who have taken over from them the publishing in his of the complete 12. In one Code complete by them, for which they have obtained copyrights.

Mi HAROLD OF LPHANI (OATIS (Caftair Bonbi, Lolin-ter Irtillers) was born in 1871 at Imperiev, man Manchester, and educated at the Manchester Commercial School Heraine to Bombay in 1802 for an old established firm. In January 1906, in conjunction with Mr. I. D. Barbhayt, a well-known native gentlemanot Bombay, started the imm of I. B. Coates & Co. Mer. chants and Government Contractors.

Mr Coates is well known in Bombay Masonic (ircles and now holds the post of D. G. Freasurer He is also a keen Volunteer and holds the rank of Captum in the Bombay Volunteer Artillery

Mr I UNHIDAS DWARKADAS BARBHAYA Partner in I B Coates & Co. was born in 1860, and is descended from the well known indrespected Bancis—the Barbhaya fundy. He is of the Kapole Banci



Mr. LUMINDAS DWAPKADAS BALBHAYA

caste, a very prominent and leading community among the Banias in Bombay, originally inhabiting the Kathiawai District. This forefather

in the year 1901, and the firm became Managing Agents for the Shivrajpur Syndicate Limited, in the year 1905 The latter Com pany was formed for the purpose of Working Manganese Ore, etc., in the Panch Mahals The Indian Depot imports annually from 15 to 20 thousand tons of Welsh coal about 100,000 tons of Bengal and bunkers between 30 to 50 thousand tons The principal Steamer Lines supplied in Bombay die the Messageries Maritimes, German East Africa Line, Florio Rubattino, etc volume of trade the most perfect To meet this organization is reeded, and the firm in its various branches and



agencies co ordination which enables it to in its bus ness with smoothness and regulanty Nothing connected With shipping or coaling comes amiss to this firm, which men tains a large and competent Lui o per n striff to look after need by head Manager of the head has head competent at Bombat Mr r A H East, has been connected with the Bombal House practically since its inception prior to which s nce its inception prior to winch he had held positions of responsibility with the Sulphide Corpo-Jacuum Oil London and Compriny

Messrs COUTTS & Co., Aimy, Shipping, Forwarding and Passenger Agents, Bombay and Karachi An extensive business has been built up within the last twelve years by the enterprise of the above well known firm. It was in 1894 that Mi Ernest Hadi an Coutte li d the foundat on of the extensive organrat on and ts many 1am fications, commencing bus ness on a com-Print vely small scale

The Ch ef Offices in Bombay at 59, Hornby Ron, occupy 3 pronu nent position in the st eet which is the bi sines, ce tie of the City, and contain in addition to the usual general offices and private rooms of the firm, a packing and despatch department forward ng department, shipping department and passenger department, with spac ous and dry

watehouses for storing passengers' passengers' passengers' The whole establishment is adm lably ordered and systemat sed, and presents at all times a scene of busy animation The scope of the Company's open it ons embraces all business connected with the shipping of goods in large quantities, the forwarding of parcels and packages or baggage to any part of the world by their well-known or one of the control of and Foreign" expresses connection they have also organ zed a special service for the Military, particularly well and favourably $I_{n th_{ls}}$ known as the "Soldiers Express", by wh ch they convey boves, heavy and surplus baggage, to any address in England, delivered at the door of the addressee, at very low charges, combined with despatch has by leason of this specially organized seri ce been placed in a The firm very prominent position with the m_{i} l_{i} t_{ary}

special feature of the firm of Messrs Contts & Co is that they give the henefit of all their above Express Services to the sender of parcels etc, as they convey the same at the least cost, e ther by weight or mea surement, wh chever is the more be nefic al to the sender, and it is generally questioned how this firm can afford to offer these facilities, when similar houses apply the most profitable rate Messrs Courts & Co are in a position to answer this question, which they will be pleased to do at any time

As Passenger Agents, Messrs Courts & Co afford every assistance In booking passages, selecting desir able berths, collecting baggage and placing it on steamers They also store baggage, at a shilling per month per prchage

Letters, telegrams and parcels are received to awart arrival of friends, for which no charge is made They effect insurances, Life, Marine, and Fire, at lowest rates obta nable, and will collect amount of invoices against delivery of goods entrusted to the r care

As Cleaning and Custom House Agents, they clearcons gnments from abroad through the Customs, and forward to any address They enter into contracts with houses making various shipments by a single vessel, to receive and distribute the pack ages to various addressees, and in this connection it is worthy of mention that houses who are in the habit of mak ng shipment of single packages and paying m n mum steamer freight, should enter nto correspondence with Messrs Coutts & Co, who will be glad to advise them as to the means whereby these minimum freight charges may be amount to over 10,000 packages
exported per unnum and approxi Their annual transactions mately double that number imported, and these shipments include

every conceivable variety of goods The firm of Messrs Coutts & Co hold a very high reputation in the commercial world, and are well known in every part of the globe, as the result of twelve years of hard work, during which period they have never fuled to carry out, in a satisfactory manner, any matter they have undertaken They have lately opened a branch house at Karach by special request of their various chents, which is under the able direction of Mr R Clarence Miles, one of the partners in the Karachi branch of the firm

Mr E Hadrian Coutts, chief Partner in the firm, is a gentleman of Wide and varied experience, and necessarily of great administrative He is a keen Free mason, and much esteemed in connection with Lodge Perseverance, and Chapter Perseverance, in which he holds offices

Messrs Coutts & Co have reliable agents and correspondents throughIn 1833 the militury can was altered, to commence on the 1st of April. The object of the ulteration was to give time after the meeting of Parl unent for voting the supplies of the ensuing year before any assue took place. In the spring of the same can a Committee of the House of Commons on Armand Navy expend time recommended the substitution of pensions for sinceures under Government and some changes in the emoluments of Colonels of regiments, the object

of which was to abol sh non effect ves simplify accounts. The only considerable reductions were in the emoluments of the Colonels of the Foot Guaids (from which reduct on the Duke of Wellington was specally exempted in cons detation of his great services) and in those of regiments of Cavalia in India, which were deprived of the extra allowance for wear and tear of appointments in a tropical climate On the 1st April 1834 the name of Greenwood was dropped and the firm became Con & Co

Mr Fieder ck W Coxcommenced his career in Craig's Court in January 1829, and in December 1839 Chailes Hammersley, Junior, and Hugh Hammersley were received into the office

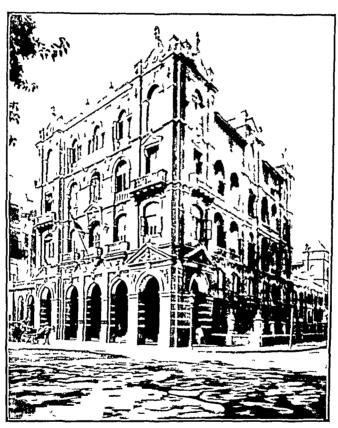
In 1854 the war with Russia occasioned an augmentation to the army of upwards of forty thousand men,

and on the embodiment of all the Militia,—English, Scotch and Ir sh, Messrs Co & Co obtained without solicitation the agency of seventy regiments

The termination of the war brought back the army to a peace establishment, the Cavalry and Infantry were reduced to nearly the same number as before the war, but the Artillery was fixed at an establishment of about twenty thousand men, being three

times the unount of the old peroestablishment

In 1857 in expedit on to Chan was prepared under the Larl of Elgin, consisting of about 4000 troops in addition to 4 strong sea force. Put of this force was intercepted for the more urgent service of India and between thirty and forty thousand men were sent off from England and the Colonies in the course of the months of July August and September to assist an suppressing the Mutiny. Sir



CON & CO'S BUILDING, BOMBAY

Colin Campbell being appointed Commander in Chief in India in the place of General Anson, who died at Meerut immediately after the first outbreak in the North Western Provinces

Dur ng the succeed ng years the business of the house cont nued to expand steadily until the old premises became too small, and in 1887 the firm moved into the new Bank built partly on the site of several houses fronting on Charing

Cros which had been previously bought is opportunity offered and partly on aportion of the Crugs Court building

Agen a rope the vary th South Africe brought to the house an enormous necession of business and arrangement had to be made and were necessfully made to carry out the humer I but we of others netually a the had the work of delvering to them the ribiters alone whilst movement the I need in rehented by a large add to to the

establishment of the Postal Department of the firm a London

The hous had for a long time been considering the opening of brunches in India and in 1905 the first Indian Brunch was opened in Bombay followed by mother one at Rawal Pindy in 1906

 $M_{\rm L} = 1.R \Lambda N (1.5)$ ROWLLY PHIL Manager of Messrs Cox & Co Binkers Bombay was born in England in the veir 1872 and educated at Mirlborough College England After in sh ng his education he joined the Bink of Scotland at Ke so in the veir 1890 Mr Hill was transferred to the Head Office of the Bink of Scotland at Edinburgh in the year 1803 He then accept cd i post in the Bink of Bombay and came to India in the year 1894 He worked with the Bank with success

for nine years and managed its four different branches including the one at Karachi His abilities were well appreciated by Messis Con & Co of London, who offered him the post of Manager of their branch in Bombay

This responsible post was accepted by Mr. Hill in the year 1905, and he opened in Bombiy Messrs Cox's first branch in India Mi. Hill represents the Bank in the Chamber of Commerce. He has a great taste for different sports wherein he

Currie to represent them. On his retirement from the Churm inship, the members of the Chamber by a special resolution, placed it on record that during his term of office the work of the Chamber had been carried on most efficiently, and much had been done for the benefit of the trude of the Port, while the status of the Chamber, is a body representing the morests of the mercuntile community, reached a postion ligher that it had ever before enjoyed. Mr. Currie has til en considerable interest in public Min is and served as President of the Karachi Municipality for three and a half vears, and as a member of the Karnelii Port I net for about four years. He was one of the original founders of the Punjab Chamber of Commerce and was elected its first Charman at the incept on of the body in 1995

Mr 7 G CLYPIR Inchest Bulder and Contractor Calcutta



Mr. I. G. CIVIIR

was born at Chattagong in 1857 educated at Calcutta at the Chastran Brothers' School, and subsequently at St. Aavier's College, under the Jesuit Fathers. On leaving school he was apprentised to a large engineering and building firm in Calcutta, and having served his articles, entered the Public Works Department, but resigned later on, in

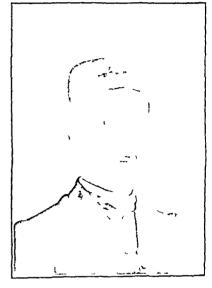
order to set up in business for himself. One of the first large contracts entrusted to Mr Cuyper in his private capacity was the old grand stand at the Ruce course which he built to the order of the Calcutta Imf Club Mr Cuyper has since done very luge business in construct on work for the local jute paper, bone and flour mills. He was elected a Municipal Commissioner for Ward No N in 1000, and served on the Corporation for six years. He did very good work when the plague was it to worst in Calcutta, in open no out the new road running ist and west through Chandney, this locality near Chandney Hosp til cilled Goomghur having been prevously one of the most ins intuy and congested in Calcutta. The whole of the congested area was scour d by the Corporation under the then Charman the Hon ble Me R. I. Greet. The new road has been named "Temple Street" Mr. Cuyper was on the Committee of the Anglo Indian Association before he left for Ingland in 1905. He is now on the Committees of the Lawrence De Souza Home for Widows and the Deaf and Dumo School Mr Cuyper is a luge landed proprietor in Calcutta

Messrs DAMODAR KHLISEY, 4 Church Gate Street, Fort Bom



Mr Kintsiv Kurv bay, Meichants and Importers of English and Continental piece goods, established in the year 1801

Partners Khetsey Kara and Lila dhar Kua. The firm is interested in piece goods in general, but particularly in coloured and black, It dains coloured figure brocades white sature and twill drills whate mulls and mansioks grey shartings and dhoot es und grey mulls. The magnitude of the firm's operations can



Мг Тимбим Кма

be judged from the fact that they usually stand from year to year as either first or second among the native importing houses in Bom bay The firm makes a speciality of placing its goods on the market in proprietary brands the "Pitch kui," "Pindin" "Mala," 'Toddy'' and "Nal Chhaps being well known and in much demand in all the principal markets of India and the firm has correspondents in all the principal commercial centres of Europe Mr Khetsey Kara, senior partner and manager of the firm, belongs to the Bhatia commu mity, renowned for its commercial enterprise The piece goods business was left to him as a heritage, inasmuch as his father and the other members of the family were well connected in the line, importing their requirements through European houses when the trade in India was in its infancy M_1 Kaia, better known as Ka'ia 'Bal va." held an equally important position in the line, as instanced in the fact that he took a leading part in the formation of the Mooljee

business, with the rood will, patent rights, etc., to his nephen is a gift, and retired up country Bal u Woopendra Nath Dis did not find the business devoid of trouble on taking it over. The workmer were dissatisfied on account of his youth and many left to start in a small way on their own accountthat remained give trouble and about this time to idd to his emharrisements, Mes i McGivin Smith & Co the sole igents wound up ther basiness Babu W \ Dis however had that and perseverance enough to surmount these difficult ties. Most of the men who had left to set up on the rown account fieled and asked to be reemployed at the werks Gradually the employes discovered the worth of the young proprictor and his ability lusices igin begin to floursh and it was found necessary to temes the nanufactors to luger p emises at 117, Cossi ur Roal, and by the addition of more capital opentions were much extend The firm granted no more agencies but by meins of their own employes undertook direct siles to the public A number of other munifactures were now added to the business of the firm The e included the manufactive of safes and boxes specialities in electroplating, corporary, tinsmith's work and general engineering Owing to the introduction of these branches, the business was again removed to a more suitable place 15, Cossipir Road, where it is no sit inted. The business in all its Franche is now flourismer, and the manufactures of the firm hold than own prinst imported goods Indian Government deal with them largely, and both the Furgiein and Indian public patronize the firm extensively Credit is due, both to Baba K. I. Das and his nephew, the present proprietor, for the indomitable way is which they have overcome tre initial difficul ties of their enterpaise

Messrs NOGENDRA LAI DATTA & Co, Metal Merchants, 41, Strand, Calcutta The firm deals in iron, steel, galvanized, corrugated sheeting and galvanized ridging Their Agents in London are Messrs John Elliott & Sons, Bush Lane House, Cannon Street,

Fulloch & Co. 4, Fenchurch Avenue, and Cabbon & Co., 21 Lime Street The firm was established by the brothers. Jogendia Lal and Nogen



Mr N I DATEA

dri Inl Datti, both of whom me working partners. Mi Jogendin I il Datti s a Bachelor of Arts



Mr J I DATTA

(Cilcutta), and is also a Bachelor law. The firm callies on a retail is well as a wholesale business. They have other premises it 21,

Darmahatta Street Calcutta
Then Banlers are the National
Bank of India, Ld They are one
of the most respectable of native
merchaets in the line

Messis De NORONH & SON Hide and Skin Merchants and Government Contractors Head Office Cay npore The sole Proprictor of the firm is Mr W C De Soronha and their principal business is in hides and skins which they export largely to the Continent of Europe and to America They have Branches at Luclinov and Agra and Agencies at Delhi Meetut Amritser Moradabad Bueilly and many other centres in Ind a Besides the hide and skin business Messis De Noronha & Son erry on many other undertakings They are proprietors of the Bailey Flour Mills at Campore, stated in 1588 by the present proprietor. This is a roller flour mill and one of the largest of the kind that grinds flour for the public in India The firm are also proprietors of the Surki Lime Mills at Campore This concern was also started by the present proprietor in 1888 and is admittedly one of the largest and finest of its kind in Northern India Messrs De Noronha & Son also carry on the business of Auctioneers, and are, by appointment Auctioncers to Government They hold weekly nuction sales throughout the year at their premises in Campore They are also Advertising Agents for Upper India representing in this line Messis D J Keymei & Co, of London and Calcutta Their business includes the agencies for the Manchester Insurance Company and the Indian Daily Iclegraph They transact a large business as Forwarding Agents for goods to all parts of the world through Messrs Latham & Co, of Bombay, Karachi and London

MI WILLIAM CONSTANTINE DE NORONHA, Sole Propiletor of Messrs De Noronha & Son, was boin at Cawnpore in 1862 and educated at St Mary's College, Bombay He is the only son of the late Mr M K De Noronha, of Indian Mutiny fame, the friend of Brigadier-General Wilson of the 64th Regiment of Foot who was mortally wounded near the present

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profession was not les true vocation. Jetha Market -the chief centre of 310 the piece goods but ness in Bomb its, and one of the largest of its kind The Sopratut Buter was issue ited with his name in con nect on with his having successfully in India ornered the Piece goo Is supply omerca on piece minia chich during the shire minia chich and the tim ly still continues to b

Define Comble of Cen which convinced ham of the reach live of his proje to At the expert of the Mr Khetser Kari received his prod he obtained the min a Issistance of the Life Kuma Lider. aly education it the Flph astone Chindri and Bahador of the Pulpur Ra whom he convinced H A School Bomb W and complete l han gher education at the I lphin that lock making could be intro as a gard concesson at the distance has to a Colleg After funding his education he entered the piece goods has, taking a step higher duced successfully in Ind's Bron WI Dies first experience were hale retempo and would have d goods and, taking t step a gard and amporting direct, Without employing t med am In 1804 We Khetset started his business on his own recount, but under the old name of O modar Khetsey and has solch worked it up to its present level In Libidhir Kirr lunor butner in the firm Joined in the vert 1000 after finishing his education and is now act yell en gaged in co-operating with his brother

Mesers DAS& Co Lock and Safe The fru, Manul icturers, Cilcutti consider. which has actioned considerable enumence as lock smiths, was which has



Babu K L DAS

sounded at Chitpur, Colcutta in 1879, by Babu Kushna Ial Das, who was at one time employed as a clerk in a Government office

minufacture wherever practicables was issued and the Covernment or by for Die 8 (o shorts with so Tirgels in reach that the firm hat to a shift to uspital if short time all good locks were of forcign ing for the introduction of the modern



public in order to meet the Govern ment demand. At this time Kumar Indri Chir dri Singh Bahidoor who had so will supported Babu K I Das in his end wours to b mefit his Country and The industry, however wis now firmly established and Bibu K 1 Dis s time was so taken up with attending to the mechanical put of the him Swork that it becam mees in to place the conduct of other utims in the hands of in Mess McGum Smith & Co (a firm since defunct), agreed to recept the cole agency and push sale. Babu K I D is not free to devote ill he t me to manu facture, greath amy roved his works allowances to apprentices who were not yet skilled enough to do importing a number of much ne tools to facilitate the processes good work, did not allow of success The constant labour and anxiety ful financial results, but Babu K 1 attendant upon the onerous task Das persevered, and gradually, as the of establishing such a novel industry apprentices attained proficiel et lie ignist discounging opposition, told was able to discharge the old work on Babu K I Das shealth Just as men who were but I di ig on the he had succeeded in getting the business About this time also he business to work smoothly Tearing introduced certain improvements that a breakdown would destroy his into his loct's, which he protected by business, he initiated one of his parent His ippliances were now so nephews, Babu Woopendra Nath mich improved as to variant him in Drs, into the craft and gave him a thorough training In September thorough training In September the ninde over the entire applying for Go einment pationage which he obtained shortly after wirds Lord Ripon's Cicular who rold Indian Covernment departments to use goods of Indian

Cawnpore Station Theatre in 1857 Mr W C De Noronhi. after leaving school, joined the Harness Factory Government School in Campore, and in 1875 he entered his late father's firm In the general business at present carried on he started a branch in photographic requisites, and subsequently founded a business in acrated waters for which he laid down a factory. He was a junior assistant in his father's firm, and by his keen attention to business he soon pushed his way to the front, and the management of the whole business was shortly placed in his hands. His father left the affairs of the firm entucly to his discretion In 1888 Mr W C De Noronha succceded his father as sole proprietor of the firm. He has other large interests in Campore being a shareholder in the banks, and in most of the Limited Companies owning mills in Cawnpore As in auctioneer he has attained great success, and has disposed of many large concerns that have been brought to auction, notably the rute mill which went at the figure of Rs 4,96 000 His father presented him with a golden auc tioneer's hammer, in view of the fact that the natives entertained a superstitious feeling that large concerns should be knocked down with an implement of precious metal He has also been presented with a silver hammer for daily use, and another golden one by Messrs Cooper, Allen & Co These tokens of the esteem in which Mr De Noronha is held by all classes of business men, are of sterling quality and fine workmanship He is largely interested in charitable institutions, to which he contributes largely Recently he has given a handsome donation to Lord Roberts' Soldiers' Homes at Cawnpore Mr De Noronha's father was a famous min in his day, and held a golden trowel and hammer which were presented to him for his services in Rajputana as Superintending Engineer to the Tonk State

Messrs LOUIS De SOUZA & Co, Coach Builders, Cabinet makers and Auctioneers, Allahabad Proprietor, Mr Louis De Souza This business was started by the present proprietor in the year 1886, at first in

a very small way for coach building shoong forge and metioneering, Mr. DeSouze at first doing all the work himself. As the work increised the proprietor gradwally took on a few hands, increasing the establish ment is the business expanded until now he employs from 125 to 150 workmen including skilled utis ins carpenters, blacksmiths painters etc. The firm have attained an excellent reputation for the manufac ture and icp in of ill kinds of convermees, and they now do every large business throughout the provinces. They are also manufacturers of all descriptions of cabinet work furniture étc, ind contracting carriers to the "Pioneer" With



Mr. Louis Di Souza

this business Messis De Souza & Co combine an extensive auctioneers' business Their auction mart is 120 by 56 feet, where weekly auction sales are held They also conduct open an auction sales and every description of business in this line The proprietor, Mr Louis De Souza, is of Portuguese descent, and was born in Delhi He commenced business on his own account at the age of 25 years. He is a member of the Institute of British Carriage Builders, London, and was for three years a Commissioner of the Allahabad Municipality He has taken great interest in the Volunteer movement, and served

for 20 years as a trooper in the United Provinces Light Horse, receiving the long service medal

Mesers DINSHAW & Company, General Merchants and Commission Agents and Government Auctioneers, Meerut, United Provinces, were established in 1881, and have since carried on their business success fully The firm import direct from the manufacturers in I urope, and their prine pal dealings are in wines, o limin s stores, finey goods and general merchandise. The urated waters manufactured by the firm are of high class, and well known throughout India. Originally founded by the fither of the present proprietors, the late Mr. Dinshiw 5 Dillas, the experience gained, combined with the energy put forth by the founder, tended to the success of the firm Dushaw & Co are the local igents for shipping and for warding for Messrs Lithran and Company, Bombay, and by means of this and their other agencies they are in a position to execute Butish and Continent il orders placed with them Mr Jamshedice Din shaw, Man iging Partner of the firm, was born in the year 1870, and educated at the Elphinstone High School, Bombay After completing his education he joined his father in business, and for 16 years worked with him at Meciut, where he guned his practical knowledge in general mercantile pursuits. He took up the management of the firm after the former's death and has since carried on the business to a successful issue

Messis DOSSABHOY MER WANJEE & Co Merchants and American Agents-Head office, 6, Paisee Bazai Street Fort, Bombay Established in the year 1830 by the late Dossibhoy Merwanjee Widia Partners | Mineckiee Dossabhov Merwanjee Wadin and Dossabhov Framtee Doss abhoy Merwanaee Wadin This firm has agencies all over the Bombay Presidency, and deals in exports and imports, but principally sewing machines, Indian blackwood carved furniture, carpets and curios It is the oldest firm in Bombay having business connections with America, and the founder of the firm had the rue honour of being the American Vice Consul in Bombay

cheerfully given. In the midst of his various engagements and duties, he takes part in public affairs and is one of the most promising public spirited citizens, anxious to serve the public and his country to the neglect and sacrifice of personal interest.

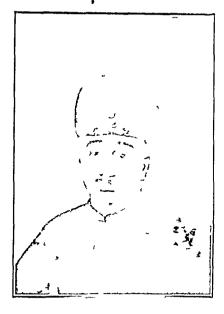
As a prominent member of the Bhattia community he is held in high esteem and regard. He is a generous, if silent, donor, always prompt in helping the poor and the needs His sound and practical knowledge of mill industry idmin ably fits him to be a member of the Boulds of Directors of about i dozen Mill companies and other concerns He is the working agent of the Tricumdas, Lakhmidas Khimji and Bombay Cotton Mills The idea of starting abank on the lines of the Bink of Bombay originated with him and he has the satisfaction of seeing the Bank of India, to the formation of which he has energetically contributed not a little an accom plished fact

The Government of Bombay, appreciating his high qualities, simultaneously appointed him as a Member of the City of Bombay Improvement Trust a Justice of

the Peace, and a Member of the Municipal Corporation, a compliment is unique as it was thorough ly deserved in the affairs of these and other public bodies, he takes a keen and active part. He is also a member of the Managing Committee of the Bombry Mill Owners' Association

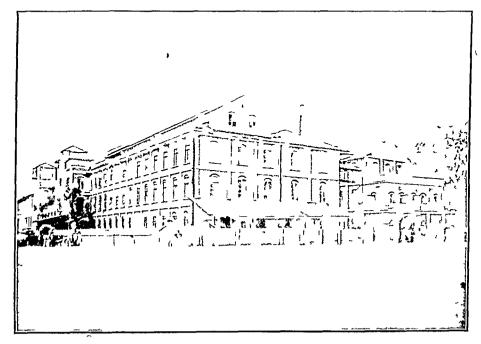
Mr Dwarkadus' life and career afford a stimulating and inspiring example of what capacity joined to unselfish devotion to duty and a spirit of enterprise and hopefulness can iccomplish an example which his countrymen will do well to imitate

Messrs DWARKADAS VUSSONJEE & Co, Agents Sole Proprietor, Mr Naranji Dwarkadas This Lisiness was estab lished in 1873 by the late Mi Dwukidas Vussonjec, father of the present proprietor. The turn are Agents to the Jiviaj Balloo Spinning and Weaving Com



The I ATI Mr DWARKADAS VESSONJII pany, Limited, a joint stock association, owning a cotton mill situated at Faideo, Bombay This Company

was founded in 1873, by Mr The mill is Dwarkadas Vussoniee styled ifter the well-known Jivrai Balloo family, from which Mr Dwarkadas Vussoniee was descend The original capital of the mill w is Rs 7 50,000, which was subsequently rised to Rs 13,00,000. divided into I 100 whole shares of Rs 1,000 (ach and 800 quarter shares of Rs 250c ch The miles turnished w th 34,500 spindles and about 700 looms It employs about 1,300 hands All the affus of the mill are managed by the present proprictor of Messis Dwnikadas Vussonjee & Co, Mi Nuani Dwarkadas who is ex offic a Director and Chauman, with the assistance of a Board of Directors consist ne of Messis Muiri \ irotam Goidhan das ind T K Gajjul, and a secietal Mi J K Parulkai The registered office of the company is at Whiteaway, Laidlaw's Buildings, Hornby Road, Fort, Bombay Mr Naiann Dwarkadas has other interests in cotton as well, being the sole proprietor of the "Naranji" Mill at Puel, Bombay, which runs 20,000 spindles and employs about 600 hands Mi Naianji is also partner in the firm of Messrs Glazebrook, Tejpal & Co, a firm devoted to cotton and insurance

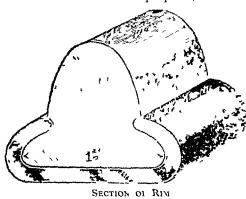


JIVEN BALLOO SLINNING AND WEAVING COMPANY'S MILL

Automobile Shows The trade in Dunlop motor tyres has increased enormously

The Dunlop old motor tyre, for motor buses is the final outcome of many veris' practical experience ind continuous and costly experiments, in all hinds of solid tyres for motor buses and commercial vehicles I he principle of construction embodies the latest ideas both in methods of manufacture and of attachment insuring a highly efficient tyre tree from the object ons to which other solid tyres are subject. Complicated mechanical continuous for keeping the type on, are entirely ilm nated without loss of efficiency and with the adventages of easy manipulation and increased resiliency. The Dunlop solid motor tyre is built up of the best quality of rubber obtainable specially selected for the purposes and possess ing great resiliency and durab lity

The Dunlop Company he also manufacturers of carriage tyres, rubber for all mechanical purposes,



etc, etc They are continctors to the Admiralty, Britsh and Forcign railways, India Office and Wai Office

Mr WILLIAM SHANNON TINKLER, General Manager for India for The Dunlop Pneumat c Tyre Company, Limited, was appointed to the post, and came to India to take up hs dutes in July 1904 He also holds the position of General Manager of the Dunlop Rubber Company for India, Burma, Ceylon, and the Straits Settlements

Messrs J DUXBURY & Co, Ld, of 24, Forbes Street, Bombay, established in the year 1891, are Merchants and Contractors to the Indian Government, and their Head

Office is in Munchester, Lingland They deal principally in Munchester pace goods and all goods



Mr J G Mairis

required for military equipment. They are Sole Agents in India to Messrs Langworthy Bio thers & Co., Ld. the well known Manufacturers of Khaki Drill and to Messrs. J. R. Gaunt & Son, Ld., Birmingham, Swoid Cutlers, Button and Oinament Manufacturers. In addition to this the firm have their own Hosiery Miliat Tudeo, Bombay, known as the Duybury

known as the Duxbury Woollen Mill Then Manager, Mr John George Martin, who came to India in the year 1903, was boin in England in the year 1878 Before coming to India he served as a Manager for several years in a cotton mill in Lancishire and has practical experience of cotton and cloth manufacture. He was elected Manager to the firm in the year 1905, and is also the Minaging Director of the Duxbury Woollen Mill, and represents his firm on the Chamber of Commerce Bombly.

Mr DWARKADAS DHARAM SEY, a prominent citizen and meichant of Bombay, was born in the year 1864 and received his education at The Elphinstone High

School and St. Nater's College (Sanscrit is second Linguage) He comes of the well-known Bhattin family of Seth Kima Govind to which ilso the lite lamented Seth Likhmidas Khimpi, i J. P. ind a well known Phil inthropist, belonged. Mr. Dwarkadas from in culy ug, give signs of future idy incoment, and by dint of sterling audities of the heid and heirt has t sen to the position of one of the leading and most universally respected estizens of Bombis His remulable success in commerce ind mill industry is due to his spirit of enterprise and resourceful ness his business reumen eleu headed grasp of principles and de-



Mr. DWARKADAS DRAFASIA

tails, coupled with indomitable per severance and enthusiasm for work. He is a liberil and discriminating patro.

In a poor and owes his success and rise in life to his helping hand, and while ever ready to a similate new ideas and ideals of a progressive age, he is tenacious of all that is sound and wholesome in antiquity.

Young bold and energetic possessing great tact and foresight, Mi Dwarkadas Dharamsey is known as an expert in the mill industry and his advice in multifatious intricate questions regarding trade marks and other matters is keenly sought and

attended the business when taken up by others At last, in 1871 the concern went into liquidation goodwill, stock buildings, and plant were disposed of by public auction The original capital sunk in the con cern had been about three lakhs, and the upset piece was put at two lakhs, There was one bd only, that of M1 Maxwell, of Rs 2.01,000 Ths was on behalf of Messis Begg, Dunlop & Co, of Calcutta, and Begg, Maxwell & Co, of Cawapore The property was knocked down to them at the price Subsequently Messrs Begg, Dunlop withdrew, and Messrs Begg, Maywell took up all the shares The concern then became a private business with the partners in Messrs Begg, Maxwell & Co as share holders, together w th Mr A S B Chapman, who was admitted at about the same time The names of the partners were Messrs Hugh Maxwell, David Max well, I MacDonald Dunbar, Ralph Maxwell, and Colonel Weller About two years before the liquida tion the old company had secured the services of Mr Gavin Jones, a relative of Mi Hugh Maxwell, to act as manager and secretary His services were retained by the new concern until 1872, when he left in order to start the Muir Mills, which have also attained a prominent posi tion in the Indian cotton spinning At the time of the transfer ındustı v of the business from the old to the new company, a turn had taken place in the affaus of the local industry The

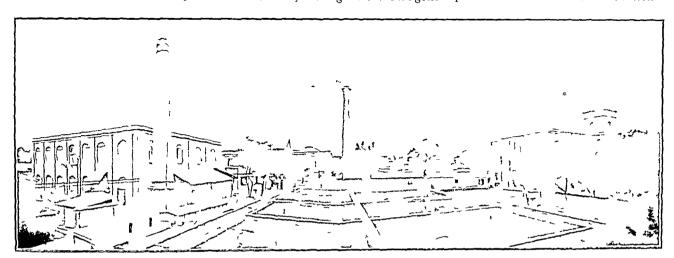
pioneei work had been effective, and the goods were rapidly becoming ac ceptable to consumers. The native hands had been thoroughly trained and proved efficient, hardworking, and tractable •As soon as the new company started operations, the in



Mi W G BEVIS

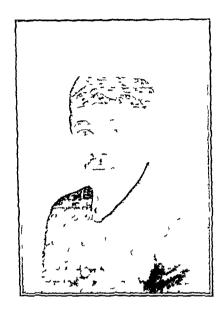
fluent al firm of Messis Ba math Ramnath offered to finance it They obtained the agency for the sale of all yarns turned out, and generally undertook the business of middlemen between the manufacturers and the smaller native dealers and weavers Since then, the Elgin Mills have gone

on from success to success, until then name is now a household word in Their manufactures cons st of woven goods, drills, doosootties, tui ban cloths, towels, sheetings, dhoties and the well known "twill lining" so um versally used and appreciated for summer shats, also grey vain of all counts from 12 s to 24 s. Up to the year 1886 it was unusual to make any vain of a lower count than 20 s but since that date a demand has set in for lower counts such as 12's and 16's which were never made in the olden The cotton obtainable locally lends itself better to the manufacture of the lower counts As for the higher counts, cotton from Hinganghat and the Berais is necessary property of the Elgin Mills consists of 25 acres of freehold land on which stand three separate in lls containing 50,000 sp ndles and 600 looms There are well built offices and bungalows for the manager and staff, to which are added a club for the European staff, a dispensary and post office The mills employ from 1,500 to 1 600 hands and a further 500 to 1,000 in connected industries outside. The East Indian Railway siding to the mill is 31 miles long For over forty years the Elg n Wills have held Government contracts for the cloth ing of the police of the United Provinces, and also for many years a smilar contract for the Pun-The Elgin Mills are jab pol ce the pioneers of the cotton spinning industry in Upper India and the precursors of all the numberless cotton



THE ELCIN MILLS

business at Bombay, and having the same address. He has also opened a pearl agency business. Thus, Mi Natanj Dwarkadas is a land lord, mill owner and merchant He is a Justice of the Peace, leader



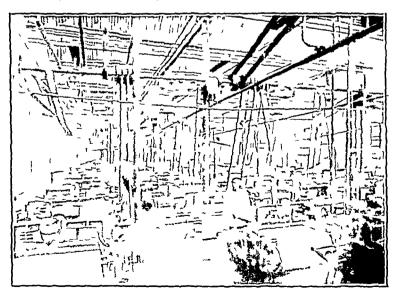
Mr NARANJI DWARKADAS

of the Bhattia community, a d very popular among all other communities of Bombay He also holds the position of Director of the Lakhm das Khimji Lakshmi, and Moon Mills, and is a member of the committee of the Goculdas Tejpal Charities, as well as of several other charitable and benevolent institutions He resides at Daria; Mahel Nepean Sea Road, Malabar Hill Bombay

The ELGIN MILLS, Campore The mlls belong to a private company who carry on the business of cotton spinning and weaving in all its departments The establishment of the mills dates from almost immediately after the Indian Mutiny of 1857 It is the premier concern of the sort in India, and the idea of originating the industry of cotton spinning on a large scale in Cawnpore seems to have been due to Mr Buist, who was in 1860 the station master at the newly opened East Indian Railway, Har Chand Rae, Ramanand Goro Pershad

Sukul, and Muflis Rai Ganga Sahai, with Babu Annu Mal, who was an employe of Mr 1 Wirwick from Hinganghat With these gentle men several military men were shortly afterwards as occurred, imong them Captain Aithm, afterwards Inspector General of Police Oudh and Captains Joby and Coghill It was not till the you 1861, however, that the preliminaries were arranged and a limited company floated under the style of 'The Elgin Cotton Spinning and Weaving Mr Hugh Limited ' Company Maxwell being one of the directors of the Company and a Mr Bradbury the first pricted mannger For the purpose of the bus ness, about 25 acres of lind, on which stood the runs of the buildings known as the Old Hospital situated on the bank of the river between the riverside Custom House it Primit Ghat and the tuns of the old Magizine (blown up by the Inn Saheb during the Mutiny) were ic quied. In about two years time the mill buildings were creeted and the machinery installed In the yeur 1864 the mills commenced work At first the establ shment of this novel venture in India was a very uphill task. It was not enough to import machinery the raw native hands had to be thught to use it and every step needed the supervision of European

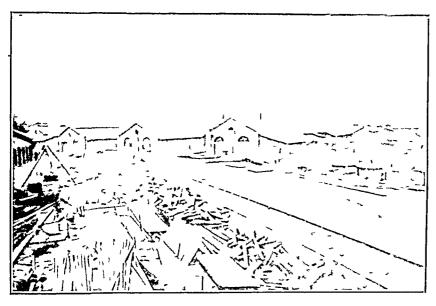
experts These difficulties being overcome by indefitigable work and the native workmen trans formed into fur spanners and were is after the European style, very satisfactory virus and cloths were eventually produced at the mills The mechanical difficulties having thus been disposed of there remained the commercial discults of the introduction of a new article to the consuming public There was then prictedly no local market for the manufactured goods it Civipore. The country dealers with the conservatism of the East stood aloof and it was only by dint of great push that a market was created, bundles of the fibrics being even distributed grats to bring them into notice. The dealers soon discovered the value of the artiele and those who had received trial samples grats returned is purchasers. But desp te the most strenuous efforts siles it first went slowly, and the success which was certim to come from the well judged enter prise was not to be reaped by the pioneers of the industry. It proved too great a task for the company to establish the industry, teach the native hands to produce and to carry stocks of goods all the while waiting for the introduction of sides on a large scale The enterprise struggled on for a few verrs laying the foundation of the large success which in later time



THE ELCIN MILLS

with all that is most progressive in Cawapore industries. Mr Gavin Jones senior, was the founder of the cotton and woollen industries, and is very largely interested in this go a head centre of Upper India.

menced business with but a single cow of her own, but the purity of her supplies led to many friends urging her to increase her stock as fast as she bought more cows to supply the demand more and



I MEIRE LACINEERING CO'S WOPES, CAWAPORE

The firm of Gavin Jones & Son also undertake a considerable amount of civil engineering work, and have within the last two years established electrical department, and have carried out several important undertakings in this line, through the experienced electrical engineers This firm is a in their employ true exponent of the real Indian "Swadesh," cult, and it is to the enterprise of such firms that India must look for the development of its internal resources enabling the country to become self sup To this end, it is to be porting hoped that the Government of India will, in time, remove the many restrictions in the matter of Indian firms competing for confracts, that hamper their move ment, and that they will adopt a policy of encouragement

The EXCELSIOR DAIRY FARM, Cawnpore, sole proprietor Mrs W Hodgen This is one of the best and largest dairies in India It was started in quite a small way by the present proprietor about four years ago Mrs Hodgen com-

more customers came in and she vas obliged continually to add to her herd of cattle to supply the increasing demand till she now ovns about 150 head of stock The Government is one of her best customers and Mrs Hodgen has a contract to furnish milk direct to the Government dairies at Cawnpore, I ucknow and Umballa She also supplies the whole of the hospitals, and among the residents of the station of Campore she has more than 400 customers to whom she forwards regular supplies of milk Besides the dairy business, which Mrs Hodgen has worked up to such fine proportions in so short a time, she has recently started the Excelsion Bakery for the purpose of supplying bread and confectionery to the residents of Campore This establishment has been modelled on the most approved modern lines and is entirely under European super-vision To this end, a European confectioner, of many years' experience, has been specially retained The first quality bread is made from the finest Australian flour,

raised with hop yeast The Excel sior Bakery gives special terms to clubs, messes hospitals, etc

Messrs ГОҮ BROTHERS, Leather Manufacturers and Mer chants, Cawnpord This firm was established in the year 1872 by Messis Arthur and Edward Foy, at first in a very small way Under the able management of the brothers the bus ness increas ed, until now it sone of the best known in this line in India Foy Brothers make a special ty of leather belting, for which one of their best customers is the Gov crnment of Inda who called ittention to it in a resolution in the early eightics. Mr. Arthur For actived from the business in 1803 and Mr Edward Foy has since conducted it alone. The firm confine their operations to the manufacture of leather goods by hand work, and give employ ment to a large number of skilled workmen They make excellent saddlery, accoutrements boots etc The North West Tanners is another venture which was started in the year 1892 by Mr Edward Foy, in conjunction with Mi T T Bond, for tanning and

Mr E For

manufacturing purposes This ven tuie was consolidated into the North-West Tannery Company, Limited in 1893, with Mr Bond as Managing

mills at present existing in the mins at present existing in the direct United Provinces, several mills at parent of the 318

The Mul Mills, a sm lar under tak rg formerly manager and cecre Camppore Jones of the Elgin Mills Another inst tut on the Cawnpore Cotton Mills, was e tabl shed by Mr John Har wood at one time weaving master nous at one and still another the V ctoi a Mils was started by Mi Atherton West also at one time the Elg n M lls weaving master Of late Vens there have been further add t ons to the proprietal partnersh p. In 1900 Messis D. D. J. In 1900 Messis R' Reeve and Frank Strachey J L R

Dunbai Weie ad mitted partiers and still later Tracel Mr W Majo1 G Bevis entered the new pany's service at the outset of its career n 1867 He came out from England d rect as ass stant has snce r sen to marager andand now to man agrg paitner agrg Bevis, des pite his busy I fe

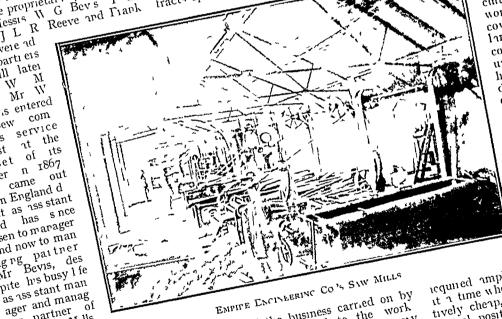
ing partner of the Elgin Mills has found t me interest in other affairs both public and private, He was for three years on the Municipal Board of Cawnpore as the nominee of the Chamber of Commerce He is a member of the Upper India Chamber of Commerce and has filled the postion of Vice President Pres dent of that body He is a Director of the Cawripore Woollen Mills the Egerton Woollen Wills, the Cannpore Sugar Works and other commerc al compan es He was connected with the Cawnpore Light Horse for about ten years, as a non comm ss oned officer, and subsequently joined the Volunteer Rifles, from which he re tired with the rank of Captain

THE EMPIRE ENGINEERING Company, Limited 11se of Cimppore 2s 1 m mul ictui ing centre brought, about a local ing centre monghi mont which demand for workshops in which repairs the carried out Mr. Givin could be carried out. repairs form in out Mr Gram could be carried out M I Gram S Jones, and his son, M I Gram S Jones, and his son, which is the same of the sa Jones, and me son, a supply the Jones, set themselves to supply the yeart of the above Comp inv in the Yen 1895 The concern nas successful from its inception, but the orts de de m inds made upon the smill foun dry ind machine shop at first laid down by the promoters sprediling led to a great mercise in the plant The execution of local con tracts speedily became but I smill

and the Ordinace Departments, in structurd from work and wood work, and they iten meet in the require ments of the municipalities of Topper In his in connection with opper in a in connection hight with the works, drunge vork hight rule in and other municipal im provements demanded by modein condit one, which constantly call for the engineer. The Company tracting engineer. also programmers the company They have mide i specialità of igriculturil to sunt ny engineering machinett such is sugar mills, not mills, flour mills, and sonk ng apper this, ploughs and other agricultural amplements which they are deadily improving and adapting to the special requirements of

the country, and introducing to cultivators. The work-hops alone cover 41 neres of land and conveniently sit heart of the in dustrial centre of Caunpore They have direct access by means 01/11 of then railway siding, to the five oil ferent systems of rulwiy lines which Cimpore to all parts of the country The Company, with great foresight,

required ample land for extensions it i time when Jard was compara tively cheap, and owing to their central position, convenient to extensive railway communications, with cheap labour, and a continwith cheap report, and continuous, and for en-ually increasing demand for en-gineering work, these workshops have every prospect of expanding into a very large undertaking, compaing favouribly with the largest engineering works in Calcutta of the Bombay The business of the Company is managed by Messis Gavin Jones & Son, Civil Engineers of Cavingore who have devoted much energy and capital to its establishment Mesers Gavin Jones & Son are intimately connected



ENPIPE ENCINEERING CO'S SAW MILLS

part of the business carried on by the Company, and to the work shop, which was increased to a very large extent in size and resources, were aided e tensive saw mills were arded extensive saw multi-and a wood working department, fitting and electing shops, and a foundry of large dimensions and foundry of large dimensions with capacity, all fully equipped with modern machinety, to carry out all descriptions of mechanical enginect ing woil, from the building of a bridge or railway wagon, down to the shaping of a bolt. The works are now the largest and most pro gressive engineering shops in Upper The Company are entrusted with large and important contracts from the Railways, Public Works 40 feet for storage. There is a separate platform on the premises for loading up the produce to the rulway, and by the excellent ar rangements loading can be carried on for 24, hours continuously.

on for 24, hours continuously
On the same premises are the
bungalows for the Manager and employees, these, as well as the mill itself, are lighted throughout by electricity, and there are admirable fire catinguishing arrangements The mills are throughout under Euro Jean supervision, the of in expert European Manager, two Engineers and one Supervisor being entertained Purchast and sale is conducted by the Managing Director With the great grun producing districts of Northern India at hand, it is not surprising that the enterprise should be so successful, grain to supply the mill being bought cheaply at Meeiut and in the Punjib The Company is a striking example of Native Indian enterprise, the seven Direc tors being all Indians, Mr Kishun Chund being the Managing Director This gentleman was born in the year 1839, and in 1858 entered the service of the Railway, which he left in 1867 to study law Kishun Chund joined the Allaha bad Bar in 1869 In 1870 he transferred his practice to Delhi and continued at the local Bur until the year 1894. His eyesight commenced to fail him in 1884, and he had the misfortune to lose it completely in 1890. This, however, has not prevented him from taking a very active interest in affairs, as attested by the establish ment of the Ganesh Flour Mills

Messrs GILL & Company, Merchants, 4, Bruce Lane, Bom bay Established in the year 1887 Partners —Messrs H Gill, W Priestley, and J L Ainsworth This firm deals principally in cotton It has also one of the largest cotton forwarding businesses, having local dealers as its constituents, throughout India The firm is also sole representative for the Phœnix Assurance Company, Limited, of London

Mr Humphries Gill, senior partner and the originator of the firm of Messrs Gill & Co, came to India in the year 1869 and served in the celebrated-firm of William Nicol'&

Company till the year 1878 when the Company failed He then started business on his own account, and ultimately formed



Mr H GILL

Gill & Company, and established it in the year 1887. He is Chair man of the Harrey and Sabapathy Press Company, which has done very well since it was taken over by the present Secretaries and Treasurers, under the Chairman ship of Mr Gill

Messrs GLAZEBROOK, TEJ PAL & Co, Merchants and Ex porters, Bombay, established in the year 1901 by Messrs N S Glizebrook, G G Tejpal and Na ranji Dwarkadass The firm do a large trade, their staple commodity being cotton, which is exported in large quantities to Europe, Japan and China They are also agents for the British America Assurance Company Mr N S Glazebrook, the senior partner, was born at Liverpool and entered commercial life in the firm of Messrs Lyon Comber & Co He came to Bom bay in the year 1881 in the service of the same firm, in which he subse quently became a partner When the firm of Lyon, Comber & Co, of Liverpool, decided to wind up then cotton business, Mi Glazebrook decided to start business on his own account and established his present firm 'Mr Glazebrook is a promin

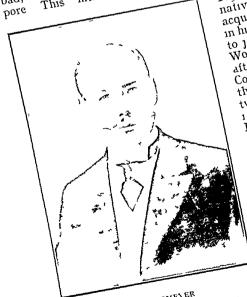
ent expert in cotton, and for several terms filled the office of Chairman of the Cotton Trade Association of Bombay He is also an active member of the Bombay Chamber of Commerce, and a Director of the Standard Life Assurance Co, and the New Mofussil Co, Ld

Mi ROBERT GOODALL, Agent, Bank of Upper India, Lucknow, is the son of the late Mr Robert Donald Goodall, Government Official, and a direct descendant of the famous Dr William Carey, so well known as the pioneer missionary in India Educated at West Drayton in Middleses, Mr Goodall began his banking careei in 1891 in the branch of the Bank of Upper India at Simla, and has usen through various grades in the service of the Bank He was Assistant Manager at Meetut and has also icted as Managei of the same bank during the absence of the General Manager At various periods he has been Agent at all the branches of the Bank of Upper India, and after serving for four years as Agent of the Bareilly Branch was transferred to the Lucknow Agency in December 1906 Goodall is a keen sportsman, and his recreations are shooting, tennis and golf He is the possessor of a very fine kennel of fox terriers

Mes rs R C GOOPTU & SONS, Chemists and Druggists, Calcutta This firm was founded in 1901 by Mr Ram Chandra Gooptu, in partnership with his sons Mr Ram Chandra Gooptu was the son of Dr Dwarka Nath Gooptu, one of the earliest graduates of the Calcutta Medical College Belonging to the Vaidya medical) caste, Mr Ram (or Chandra Gooptu, following the example of his father, chose the medical profession, and after qualifying himself at the Presi dency College, entered the Medical College Later on he was called upon to assist his father in the firm of D Gooptu & Co, which he managed successfully, and in which he obtained a partnership which he still holds His experience showed him that there were still large possibilities in the drug 'and pharmaceutical trade, and he' détermined to put his sons

Director, and Mi W B Shewin, whose knowledge of tuning and experience in the details and management of tannerics helped much in the establishment of the Tannery and launching of the Com pany, as Tanner and Muniging Secretary Mr Edward Foy is still a luge sh treholder in the Company Vir Edward Fov also started in convention with Mi T T Bond, the Cawnpore Flour Mills, which were Cawnpore Flour Mills, which were later consolidated into the present Cawnpore Flour Vills Company is a large for the Indian Aluminum Agents for the Indian Madias and Company, Limited, of Madias and tor the Kusani Ten Company tor the Mills of Almoi in the Himal Limited of Almoi in the Edwird lavas Messry Arthur and Edwird lavas Messry lavas Messry Arthur and Edward Foy are the sons of Mr Andrew Foy All were in the service of the Government of India in the North West Provinces for many of Dublin years Mr Arthur Foy had a Mut ny Medal and Mr Edward Toy a medal for the Ambeyla Campaign of 1862 on the North West Frontier of India Mr Arthur Toy died in the year 1902

Messis J FRIZZONI & Co, Builders and Contractors, Allaha bad, and Branch at Agra and Cawn pore This firm was established



A STROMENER

in the year 1860 at Allahabad by Mr Giusseppe Frizzoni After con ducting the business for about ten years, Mr Frizzoni retired, and it

was taken over by Mr Rudolph Julius Meyer In the ven 1886 Janua Reitmann came in is a partner, and resonant come in is a principle, and in 1891. Mi. Stromever. Little Mr Henry Thomson MIME, England lomed the firm The firm are Juge manuficturers of tiles, bricks, etc. They employ thous

500 men and 10 Turope in 1851st ints Souther that to the more than experienced and Thomson 15 in experienced engineer having been employed Composed Canapore Consposed Constitution of Chief Ingineer, Ch The firm his done i great deal of work in the Provinces, and among other specimens of their skill there other specimens of their skin there ire stinding the Oncen Victoria Memorial at Allahabid, the Mayo Hall, Lady Man House the Soldiers Institute, the All Sunts' Cathedril and Reman the Content, and many others, also the Government building on the Grass Farm the American Visson, Bishop's Lodge, etc Mi Alfred Stronever, the present seniol pritation of Stronever, the present seniol pritative of strong frizzonia Co, 18 1 nitre of seriol Frizzonia Co, 18 1 nitre of Germany, where he studied the pro fession of an architectural engineer

He proceeded to the United States of America, where he practised till 1885, when he came to India to enter the service of Trizzon & Co, being admitted a partner to the firm in 1891 Mi Abordson Scotland and 1891 Mi Henry Thomson is 3 native of Aberdeen, Scotland, and acquired his mechanical education acquired ms mechanical education in his native city. He came to India to Join the service of the Campaic Woollen Mills, on leaving which Woollen Mills, on leaving which after 19 years, he joined Frizzoni & Co He has been connected with Co He has been connected Rifles for the Countries and has attained the

twenty years and has attained the twenty years and has attained the 17nk of Captain He is a keen Freemason, and is P M and R A M

The GANESH FLOUR MILLS Co, Id, Delhi This enterprise was started in the year 1891 as was started in the year 1891 as a limited Company, with a capital of Rs 2,50,000, which was subsequently increased in 1894 to Rs 4,00,000. The buildings and comwere completed in 1894 and commenced work on 24th May in that menced work on 24th May in that wear. In Language 1906 the capital year In January 1906 the capital was increased to Rs 5,50,000, and the plant increased to the capacity of 24 sacks per hour, and in July of the same year the capacity of the mill was again increased to 35 sacks per hour, each of 280 lbs

The Company carry on the busi ness of Corn Millers producing four linds of flour four of titta, tinds of nour jour of that there of semoling, and two of there bruil In idd tion to this, there



ınd grim flour The processes are carried is parley att i barley out in the most modern and up to date manner, entirely by machiners, activitied by 1 200 horse power steam engine, which is now being replaced by a 500 I H P engine replaced by a 500 l. H. P. engine
Every attention is paid to cleanthoroughly
Iness, the grain being thoroughly
wished and sorted by mechanical
operations before being ground,
operations before being ground,
and entirely untouched by hand
and entirely large demand for
There is the produce of the mills which the produce of the mills which the produce of the minis of India
is shipped to all parts of India
and Burma
and Company Juige Government contracts India and Burma Besides the above, the mills produce four the above, kinds of fodder The mills are situated to the west of mins are situated to the west of Delhi, near the Rapput in Malwa Railw by and S P Rulway, Pan-Jabisarie Station, and ire situated in extensive grounds, surrounded by a high stone wall. The Mul building itself is 215 feet long by 65 feet bload and 68 feet in height All the pritition walls in the build ing are fitted with double wrought non fireproof doors, 45 in number There are six godowns So feet by

privilege of supplying medical stores to the Local Government, as the result of the energy displayed in this department. The mones of depart ment attends to all outstation orders and do s a large business with the ter estates and vicous district boards. The purchasing department folloy - local foreign markets and it is to the excellent management of this branch that the reputation of the firm for the purity and excellence of its drugs is due. The manufacturing depart. ment is under the supervision of trained and efficient chemists who have placed the min in a position

to manufac ture all pre parations in strict accordincountly the British Pharтгорогг The firm also undertake the manul icture of surg cal in struments and upphances for which they have a growing repu tation They hive 31-0 placed on the market many prepirations of indigenous drugs, now well known for their therapeutic pro The perties advertising dep'artment

carries on extensive operations in the publication of pamphlets and newspaper advertisements, neces sary in the conduct of a large business. Through their agency department the firm correspond with all important commercial centres in the world, and thus keep in touch with modern requirements.

The GREAT EASTERN HOTEL, Calcutta, has borne a conspicuous part in the public life of the city, and has been identified with many of the most notable events of the period since its opening in the year 1841

The hotel was established by Mr David Wilson on its present site, and was called the Auckland Hotel, after the then Governor General, the Farl of Auckland

The first Company to bear the name of 'The Great Lastern Hotel, Wine and General Purveying Company Limited, was incorporated on the 1st of Warch 1802 under the Indian Companies Act 19 of 1857

The object of the organization of the Company was to purchase from Mr. David Wilson and others the hotel and other business carried on by them at Nos. 1, 2 and 3, Old Some idea of the size and general appearance of the hotel may be obtained from the photographic reproduction of the exterior, which illustrates this sketch

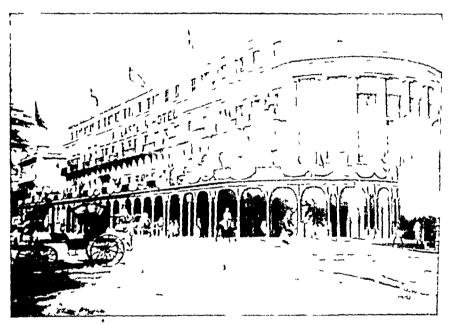
It is situated in the centre of the business portion of the city, directly opposite Government House, within five minutes' walk of the Post and Telegraph Offices and steamship landings, the electric train cas, conveying passengers to every point upon their lines, passimmediately before its doors and all failway stations are within a convenient distance

The hotel contains 133 rooms,

single and en sut all of which have been arranged vith a special view to the free cucula tion of air Those who know how un endurable is an ill ventila ted bedroom in the tropics will appreciate this feature of the Great Eastern Hotel The rooms are furnished with every conve mence, mclu ding baths. and electric fans and lights are fitted throughout t h e hotel,

during the season, the Viennese String Band plays during the evening, three nights every week

The halls are wide and lofty, the main hall being laid with tesselated marble. The grand dining hall is lofty, spacious and well lighted, and seats comfortably 200 guests. Table accommodation for two or more may be engaged and retained, by residents, during their stay. Adjoining the dining room is the reading room, replete with a profusion of papers and magazines from all countries. The room leads out up on what is one of the most important features of the house, a broad



GIEAT LASTIRS HOTH, CALCUTTA

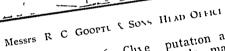
Court House Street, Calcutta, and the farm at Entally

Old Court House Street is one of the principal streets in Calcutta, the Hotel occupying a frontage of 300 feet overlooks the gardens of Government House, the Calcutta residence of the Viceroy of India, and its situation in other respects makes it facile princeps, the best in the city. The hotel building contains four floors, the ground, or street floor, is occupied by the shops, the public restaurant, bar, and private tiffin 100ms, the godowns, etc. The remaining floors are used solely for hotel purposes

for which purpose he started as a wholesale and retail druggist, in partnership with his sons Bejoy Krishna and nto

rated the firm, retired about this time, leaving the business in the hands of his two sons with whom were now associated his other

Krishna K shore Sint rmı



Dhirendra Krishna, at 96, Chive Street The rapid expansion of the business of the new firm neces sitated a speedy removal to larger



Mr R C GOOPTU

and more commodious premises at 81, Chive Street, the present address of the firm Mr R C Gooptu having thus satisfactorily maugu

now located their laboratory and m inufactors on these premises, which is also the town residence of the proprietor-

-indKumil Ki Lheproprietors of the firm ire ilso the managing proprietors of the well known Teb Com b mt a poec ined cal pre parations are Sold Irrgeli all over h dia Burma and Ceylon The "Teb ring" minu factured by the comp in has attained n great re

sever cure hrm's main offices and godowns putation as 1 cover an area of 16,050 square feet in the most valuable commercial quarter of the town, this space being necessary to accommodate being necessary to required for the very large stocks required for the execution of the orders handled by the firm

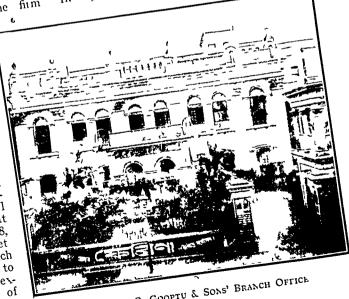
Messrs R C Gooptu Sons ١t found necessary to comply the with wishes of their nu merous constit uents by es tablishing a branch in resithe dential quarter, at 27 and 28, GreyStreet Thisbranch has led to a large expansion of business They have



ţ

Mr B K GOOITE

nincent building covering an acre of land, and erected it a cost of three lakhs of rupees by Mr R C Gooptu The business of the firm is divided into several departments The local department attends to all calls from customers and enqui 1105 from local surgeons The firm has now the physicians



Messib R C Gooptu & Sons' Branch Office

Steam-printing and chromolithography were first introduced into the Punjab by the Mufid-1-Am Press, and the firm have always kept abreast of the times by importing from the United Kingdom and America the latest printing and book-binding machinery, with all the most modern improvements. The firm have undertaken large printing contracts for various Gobuildings were constructed and the machinery got into position, constitutes a record for the whole of India Composing work was commenced in October 1907, and in the following December the presses were at work, printing off a reserve stock of forms in anticipation of orders to follow, on the contract coming into force on the 11th April 1908. On the 20th

Exterior of RAI SAHIB MUNSHI GULAB SINCH & SONS, Calcutta Branch

vernment departments, and are at present the sole contractors for the work of the Director of Land Records, and of several other important departments. They employ a staff of upwards of 700 men, and at the last two Exhibitions, held in the Punjab, they have gained the highest award for their displays of books and educational appliances in use in the schools, and for maps and diagrams, as kept in stock to meet the requirements of the Educational Department

In April 1907 the firm secured the contract from the Government of India for the printing of stock forms for use in the whole of the Government departments This was a very large contract necessit ating the provision of printing facilities in Calcutta A suitable site was secured in Lower Circular Road, and building operations were at once commenced Special machinery was imported from England, Germany, and the United States, and the rapidity with which the

March 1908, every machine in the establishment was working and the staff in full swing. Electricity is the motive power, and each machine has its own motor. A special feature of the new building is that it has been designed with a view solely to the purposes for which it is intended. It is self-contained, and all necessary work in connexion with the furnishing, &c, is carried out on the premises

Rai Sahib Munshi Gulab Singh, the founder of the above Press, was born in 1848 He began life as a teacher, without influence or monetary resources to aid him His leisure hours he devoted to the composition of books, and these attracted the notice of the educational authorities, and were approved by the Educational Department Thus encouraged in his early efforts, he started the Mufid-1-Am Press, solely with the view of printing his own books, but he met with such success that he gave up teaching entirely, and devoted himself to

his printing business, which his energy and enterprise soon placed on a solid basis. He rendered good service to the Government, during the famine, and for this and other public services he was given the title of Rai Sahib in the Jubilee year, 1897. On his death in 1898, his eldest son Rai Sahib Mohan Lal, took up the management of the firm, and later on the second son Lala Lal Chand also joined the business. The former now manages the Lahore main branch while the latter is in sole charge of the newly-spened branch in Calcutta.

Messrs HAJEŁ MOHAMED HAJEE ESMAIL & Company, Meichants, 9, Hoinby Road Bombay, established in the vert 1863. The firm was started by Mr Hajee Mohamed Hajee Esmail Sobam, a Justice of the Peace (1889). His brother, Hajee Yoosoof Hajee Esmail Sobam, a Justice of the Peace (1895), joined the firm on the 1st January 1879. The firm imports European pece-goods, and owns the Elphinstone Cotton Mills, purchased in the year 1903. They are situated at Elphinstone Road and they have 32 000 spindes 400 looms, and employ about 1,000



MI H M H E SOBIN

hands Mr Hajee Yoosoof Hajee Esmail Sobani, partner in the firm, was born in the year 1856 at Bom

the Holland-Bomb is Trading Company, Limited He is careful and keen in his business and has personally visited Calcutta and Karachi in the interests of the Company, studying local peculiarities and requirements. He represents the firm in the Bomb is Chamber of Commerce



Mr H M HAIM

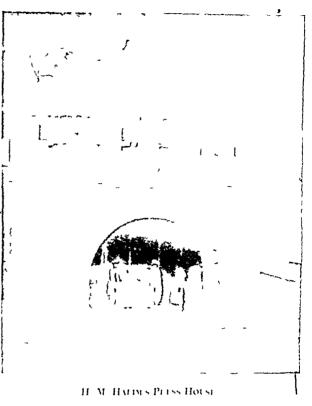
Mr HAFIZ MOHAMMLD HAIIM, Hide and Slim Merch int and Commission Agent Cimpore Tele graphic Address "Hld," Codes

ABC, 4th and 5th Editions Mr H M Halim e-tablished this business in the year 1896 for the purpose of dealing in hides and skins Bc ginning m small way, the business has steadily incrure ed until it now gives employ ment to about 100 hands The godowns have been increased in proportion to the demand for additional space. and they now cover upwirds of 4,000 square

virds. Herefules and skins brought in from the outstations, are received, 5 lected, weighed, and baled for

shipment The firm have many igencies at out stations for buy ing thicks and skins, etc. it Bombay, Mad ras, Dellin, Agra, Thansi, Tymere, Luckno v, Am ritsai. ind throughout the North Wet of India They no Agents to Messis Thomson, Ich zin & Co, Id of Calcutta A luge export business is done by the firm goat -linsbeinglinge ly exported to Lurope ind North America Mr II M Halim was born it Patidi, in the veir 1867, and there he receiv ed his educition He ac quired a know

ledge of the business of a lide and skin merchant with his father, who was established in that him at Delhi He left Delhi to open his present business at Cawipore He is the owner of a large amount of



property at Campore, and a member of the Municipal Board of the same city, also in honorary magis

trate Mr Halim is a member of the firm of No ionhrand Halim, Contractors to the Government H &S Factory at Campore, which institution they supply with hides, salted buffe, cowe, goate, etc, and he is also a member of the firm of the Cawnpore Tannery, H Abdul Karım and H M Halim, Tanners, who carry on an extensive business in supplying leather throughout North-Western India



HALIN'S GODOWAS

bay, and was educated there at a private school He joined his brother's business in the year 1870, and gained the whole of his com mercial training in his office, having been connected in business with female education in particular In conjunction with his brother he started and established a Girls School in 1883—the first school of its kind in his community in Bombay. He provided the



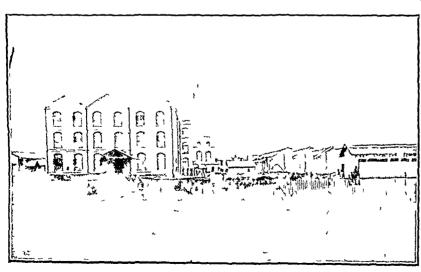
Mr H Y H E SOBINI

him for the past 37 years, carrying on the business very successfully by themselves. He is an Honorary Magistrate in Bombay and has been a member of the Municipal Corporation since 1895. He is a great supporter of education in general and



Mr OOMER M SOBANI

"Anjuman i Islam" with a "hostel," the construction of which cost about 29,000 rupees, 17,500 of which was contributed by the brothers This "hostel" was built in memory of their father (the late Mr Hajee Esmail Sobani) Mr



ELPHINSTONE MILL

H Y H L Sobani is an Honorary Secretary to the "Anjuman-I Islam," and, jointly with his brother, has also established a Free Reading Room and Library in memory of his deceased eldest son, the late Mr Sidick Mahomed Sobani, who died at the age of 21 years on 30th November 1905. He has founded i scholarship for the benefit of i Milhomedan attending St. Anvier's College, and is a well known reformer of the Cutchi Memon community He visited England in the years 1892 03 and 1895 96 for the pur pose of gaining more experience in his business, and making purchases, personally He has two sons. The one Mr Oomer M Sobani, aged 18 verry is engaged in the office with his fither requiring the necessary commercial knowle ge, and he is the first son of a Bomb is Millowner who has passed the first class in the Cotton Cirding and Spinning Examination of the City and Guilds Institute London held at the Victoria Jubilee Technical Institute, Bombay

The HOLLAND BOMBAY TRAD ING Company, Limited, have their Offices in Bombay at 39, Esplande Road. Their Head Office is at Amsterdam under the management of a Board with C.W. Freese, Esq. Managing Director. This gent eman has a large Indian experience, having himself established the Bombay. Office. They have a Branch at Calcutta, and Agencies in all leading towns in India. Their

principal trade consists of importing grey and white shirtings, prints, Bradford goods, s lk, and other fancy goods They opened their own firm in Bombay in the year 1891 5 Mr John Van Rykom, the Manager of this firm, was born in Amsterdam, Holland, in the year 1868 He was also edu cated in Holland After finishing his training he travelled through the various States of America, and made a long stay in California in the employ of a leading Bank After wards, he went as Manager of an old established Dutch firm, to Persia, which was carrying on a large business, with a Head Office in London From there, in 1905, he came to Bombay to take over the charge of

of the first successful Atlantic cable, and it was to the order of the Western Union Telegraph Company, to connect key West with Hayana This cable is still working, after all these years of immersion. For the next few years the most important business of the Company was the manufacture and laying of submarine cables and in carrying out this busi-

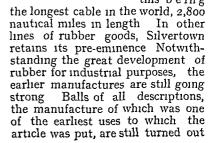
they acquired a small fleet of steim ships which were speci ally fitted for the lay ing of the cables constructed at the works The first of these to be specially built for the business was the "Silvertown, " which was launched in the seventies and was at that time the largest cargo vessel afloat with the excep tion of the **Great Last** ern'' A ship of this size was render ed necessary by the order for the laying of 3 000 miles cable on the West Coast

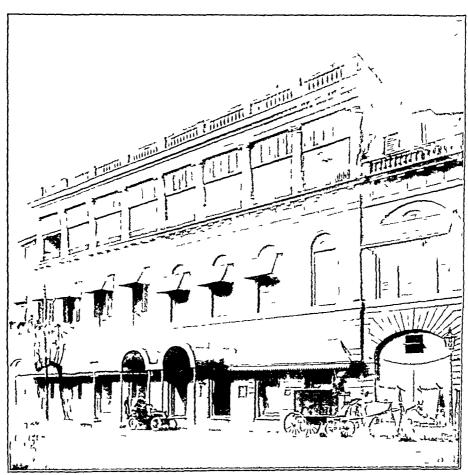
and South
America This ship the Company
procured from the telegraph engineers, Messrs Hooper & Co, and she
was originally named the "Hooper"
Her cable tanks were actually onethird larger than those of Brunel's
leviathan The "Silvertown"
was not allowed to remain idle
when not engaged in laying cables
but was employed as a general
cargo vessel The "Dacia" was

inother famous cable ship of the Company. This vessel was originally built for the Mediterranean fruit trade, but after her purchase by the Company in 1869, she was cut in two and lengthened by forty feet, and otherwise altered and adapted to the purpose for which she was required. She is the doven of cable ships. The "International" which land the Channel cable was for

last century was upwards of forty thousand miles. Since 1888 the Company have laid many important cables, having connected the Canary Islands with each other and with Cadiz, and put into communication the Capic de Verde Islands and all the important towns of the West Coast of Africa as far as the Mossamedes with Europe They have also laid a connecting link

between Mossame des and Cape Town, thus providing a much necded alterna tive cable route to the Cape The Company has also ex tended the cable system on the East and West coasts of America, and laid a cable under the Atlantic from St Louis, Sene gal, via the Island of Fernando Noronha. to Pernam buco ın Brazıl The greatest feat of the Com pany in this line, how-ever, was the laying of the French Atlantic ca ble from Brest to Cape Cod, this being





INDIA RUBBER GUTTA PERCHA AND TELEGRAPH WORKS CO., LD

many years a useful vessel to

and eventually wreched off Beachy Head A fourth cable ship in the

possession of the Company is the 'Buccaneer,' which has done much

useful work in laying cables in water too shallow for the large

vessels The total amount of sub

marine cable made at the Silver

town works up to the end of the

the Company

but she was sold

42

of Central

Messrs K M HEERAMANECK & Co, Church Gate Street, Bombay Established in the year 1861 by the late Mr K M Heeramaneck Pre sent proprietors, Messrs Maneck jee Munchcriee Heeramaneck and Rustomjee Maneckjee Heerimaneck This firm manage the Queen Spin ning and Weaving Company Limited, as Secretaries, Treasurers and Agents, and also the Bombay Cotton Press Company in a similar capa city The Queen Mills were estab lished in the year 1883, with a capital of 8 lakhs, divided in 800 shares of Rs 1,000 each (the present market value of each share being nearly Rs 1200) The mils have 35 760 spindles, and employ 750 hands The founder of the film, the late Mr Kaikhusro M Heera maneck, after finishing his primary education, had to seek an appoint ment in early life owing to unfavour able circumstances He first served the B B & C I Rulway Company as a cashier, but he gave up the ap peintment soon and became a share broker in the year 1868. He was then appointed a Director of the Framjee Cowasjee Patent Press Company and afterwards as Secretary and Treasurer to the Bombay Press Company, managed at that time by Messrs Bryce, Brown & Co He then took over the management of the Bombay Press Company till it was transferred to Messrs Gaddum & Co When Messis Gaddum & Co removed their presses up-country Mr Heer maneck formed a share holders' company and after making some additions and alterations in the original Press, conducted its affans, under the style of the Bom bay Cotton Press Company, through his own firm At this stage he came more in contact with the cotton industry, and his experience resulted in the establishment of the Queen Spinning Mills, for which his firm were appointed agents He also float ed the corcerns known as the Star Mills and the Britannia Mills, and also many cotton presses. He was a Director of the Queen Insurance Com pany and the Coorla Mills He took n prominent part in all questio, s con nected with cotton His generous disposition made him known to the public and especially to h s employes who numbered somewhere about 3,000 The whole business of the firm now devolves on his brother

Maneckjee, who had the good fortune to receive a sound and or actical training from him during his life time. Mr. Maneckjee is issisted by his son, Mr. Rustomjee, who is every energetic and promising young main and whose issistance to the firm is of great value.

The INDIA RUBBLE GULLA-PERCHA & FELEGRAPH WORKS Co Id 1-1 Furlic Place Calcutti Electrical Engineers and Munufacturers of "Silvertown'' India-Rubber Gutti-Perchi and Electrical goods Head Office 100-6 Cannon Street London F C Like many other great Companies the India Rubber Gutta-Percha ind Telegraph Works spring from verv small beginnings In the year 1852 the well-known firm of Cornhill outfitters Messrs Silver & Co purchased an acre of ground at West Ham in a neighbourhood now known as "Silvertown ' On this site the Company erected their existing manufactory built in the first instance with the object of accommodating their Water proof ng works, which they had transferred from their original site at Greenwich There was nothing in those days at the works remotely connected with electricity in which the Company have since made a gigant c reputation In 1852 electricity except for the electric telegraph, then in its infancy, was but the plaything of the scientific At that time West Ham itself was a wretched district practically cut off from London, which lay so near, by the absolute want of roads, the only way to reach it being by the river wall West Ham itself bore a far from savoury record, having been the haunt of smugglers and river pirates besides the head-quarters of highwaymen, among whom was the famous, or notorious Dick Turpin The establishment of Messrs Silver's factory was well timed, for in 1855 a great change came over the neighbourhood owing to the opening of the Victoria Docks which extended from near Bow Creek to within a short distance of Messrs Silver's works A railway line was also laid in the neighbourhood, in connection with the Docks The manufactures at Messrs Silver's works were at first confined to the water-

proofing of cloth with India-rubber, and belting for machinery, but, shortly after their inception, the manufacture of other lands of rubber goods was undertiken, and it was here that the important process of vulcanising rubber to render it hard without destroying its resihence, was discovered by accident Captain Silver describes the method which this invaluable invention came to light. In experimenting with hollow India-rubber balls made of sheet rubber in a bith of melted sulphur one of the bills fell to the bottom of the bath and remained unnoticed for a week When recovered it was found hadened into aboute. The firm were not slow to see the possibilities of the vulcimised rubber, which by reason of its impermeability to moisture has replaced wood in numberless articles and on account of its resistance to chemical action has become indispensable to labor itories Its electrical nonconductivity has made it invaluable is the basis of all electrical instruments and its durability, combined with its other properties, his made possible the modern rubber-tyred chicle of all descriptions from perimbulators and bicycles to motor cars of enormous power For the next twelve years the works increased in importance, the firm's manufactures hading an extended market and in 1864 it was decided to convert the business into a limited liability company 1 prospectus was issued and on the Provisional Committee appeared such well-known names as Sam Mendel of Manchester and William Fenton of the Great Western Railway Colonel H \ Silver and Mr J W Williams were the first managing directors holding office for a year, these gentlemen retired in favour of Mr. Mathew Gray, who was quick to see the modern possibilities of the staple of the Company, and under his auspices the business rapidly made progress towards its present proportions It was under Mr Gray that the Company first turned their attention to the great problem of the manufacture of submarine cables, in which they have since attained such eminence The first cable constructed by the Company was in 1867, a year after the laying

and gutta-percha submarine cores, shops being devoted to each manufacture In the "Rubber" Department are situated the workshops devoted tosolid rubbergoods waterproofing ebonite, belting hose tyres for cycles and motor cars and various sundries The 'Electrical" Department has extended its scope far beyond the original manufacture of rubber requisites and now embraces the construction of electrical generators both of the primary battery pattern including the famous "Silvertown" cell, and dynamo-electric machines and electro-motors, also conducting wires and cables for the distribution of electricity to plant of all descriptions In fact, this department deals with all apparatus necessary for the generation of electricity, its distribution and its utilization either as light or power, and the Silvertown Company are mongs the most noted manufacturers in this line so far have the Company diverged from the r original business in rubber goods The capacities of the "Electrical" Department may be gauged from the fact that there are employed two 250 H -P marine type engines, each driving by ropes acontinuous dynamo, and two 200 H -P "stand-by" direct coupled sets also one 1,100 H-P engine and dynamo and four 500 H-P sets working at 150 lbs pressure These supply current, the equivalent of 14 000 eight C-P lamps and over 200 motors of from 1 to 150 H-P for driving the machinery in the Factory The "General" Department holds the carponities and ters', smiths' tinsmiths' and The "Submarine" Department turns out all manner of cables, varying in weight from 11 tons to 28 tons per nutrical mile Contrary to popular ideas on the subject, the lightest cables are for deep water and mid-sea laying, the greatest risk to the cables existing in shallow and in-shore waters The "Instrument" Department deals with all the lighter sort of electrical apparatus, including apparatus for automatic railway signalling telegraphic instruments, testing sets, switchboards, and a host of other requisites upon which the electrical engineer depends The Company have also a shop devoted to torpedo

work and submarine mining for naval operations, and has supplied the leading Governments with accessories in this connection 'Carbon and Bittery" Department turns out the familiar batteries in use wherever electricity is required for small purposes such as ringing bells. The Leclanche Cell originally introduced some forty years ago by the Silvertown Company, is still produced in enormous quantities, having never been surpassed for convenience and power In the 'India Rubber" Department, the crude rubber is worked up, by processes which are highly specialised, into the finished article. Here all the operations of washing, mixing vulcanising, and calendering are carried out. The rubber is hardened and rendered commercially available by admixture with the proper "pigments" according to the purpose for which it is intended Company have also large works at Person, in France, where 800 hands are permanently employed, and which are a replica, on a smaller scale, of the Silvertown works They do a vast trade with India where their goods are appreciated as being of such high quality as to withstand the tropical climate to perfection They have offices at Calcutta at No 1-1, Fairlie Place, where large stocks of all their manufactures are kept Company also possess agencies at Melbourne, Sydney, Perth, and Brisbane (Australia), Buenos Ayres, Durban, and Johannesburg, besides having representatives all over the world

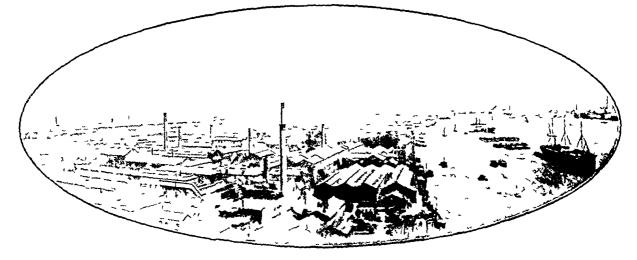
The late SEIH GOORDHAN SOONDERDAS JAITHA, grandson of Mr Mulji Jaitha, founder of the firm of Mulji Jutha & Co, was boin on the 14th December 1884, and died 10th Octo-ber 1902 Mi Goordhandas Soonderdas came of a family of the Bhatia community, well known for their commercial spirit and enterprise His education was confined to the ordinal y school course and he did not aspire to college honours He had the misfortune to lose both his father and mother at an early age and was brought up by his stepmother, under the care of his grand father, Mr Mulji During his minority the Taitha

affaus of the firm were managed by Mı Valubhdas Valjı, a partner closely connected with the family Valubhdas died in 1888 and Mr Dhuamsey, elder brother of Mr. Goordhandas, assumed charge of the firm until his death in 1899 Mr Goordhandas, then but 25 years of age, took over the management of the firm, a very great responsibility at his early age, for Messrs Mulii Jutha & Co's affairs were of great magnitude and immense extent In th's task he acted with great judgment and discretion Being a man of energy, he did not shrink from taking up, when it was offered to him, the onerous and responsible posi-tion of Scrietary, Treasurer, and



The late Mr G S M JAITHA

Munager of the Halai Mahajan, in uddition to the management of his firm's business This appointment is the highest honour in the gift of the Bhatia community At the time of Mr Goordhandas' appointment, the affairs of the community Many social were very troubled questions of vital interest were under discussion The three principal mat ters were-Travel to foreign coun tries, intermarriages with Hardwai people, and widow remarriage On these points the community were at variance Mr Goordhandas found himself called on to deal with a blindly orthodox party on the one hand, and an excitable reform party on the other By his force of characfrom Silvertown in huge quantities Every kind of rubber ball is made at Silvertown Foot-balls alone show 600,000 as the output for one season, Tennis-balls are even more numerous, while of gutta-percha golf balls the number issued from the works exceeds that of the two former descriptions put together The enormous variety of different goods which are now made from india-rubber and guttapercha, places this substance in the forefront of the list of raw material utilized in commerce and the arts and sciences The whole civilized world now appears to depend upon rubber, and civilization goes rubber-tyred and rubbercushioned In fact so great has small articles daily needed, it is not surprising that this Company, which was first in the field of manufacture, should have reached such important dimensions Every kind of sport, too, draws largely on their manufacturing resources Rubber articles are indispensable in football, cricket, tennis, golf, and many other games which are continually being played all over the world, and here alone is a limitless demand for rubber In electricity, progress would be well nigh impossible but for rubber As an insulator vulcanite stands without peer and it enters into the construction of every piece of electrical apparatus The comfort of railway travel largely depends on rubber buffers for pany manufacture is only faintly outlined in the foregoing Silvertown manufactures enter into the daily life of the world The works have developed in proportion to the growing importance of the industry The English works at Silvertown now occupy over seventeen acres of ground on the North bank of the Thames On one side, the works have the river, on which a private wharf abuts, supplied with cranes, derricks, winches, and every accommodation for loading direct into vessels which carry the manufactured goods to all parts of the world This wharf is also utilized in bringing the raw material to the works On the other side, a siding from the rail-



SILVERTOWN WORKS

been the development of the uses to which this article has been put, that it is difficult to see how the present stage of progress could have been reached without it. In the ordinary little conveniences of life, rubber is in constant evidence Tobacco pouches rings for aerated water bottles, bands for papers, valves and washers of all descriptions tubing for domestic uses and a thousand other everyday requisites are made of rubber and no substitute has yet been found In the form of ebonite it supplies as many more requisites of a small kind buttons, combs paper-knives, pens, thimbles, bottle-stoppers, and a hundred other nicknacks Considering the millions of such

the cars, and rubber cushions for the carriages Safety on railroads is assured by the rubber vacuum brake fittings But perhaps the latest uses to which rubber has been put exceed in importance all the foregoing The invention of the rubber tyre especially in its latest pneumatic form, has taken all the jolt and jar out of ordinary vehicles, and has rendered possible the motor-bicycle and the motorcar the two greatest developments of locomotion of late years. The enormous utility of rubber spells prosperity for a Company such as Silvertown which has carried on the manufacture for so many years and has reduced it to a science. The variety of articles which the Com

way enters the factory affording like facilities for rail-borne carriage The permanent number of hands employed at Silvertown is now about 3,000, though this number is exceeded when large contracts are being carried out. The factory buildings at Silvertown are built in the most modern style, and are arranged in blocks devoted to the different manufactures Electricity is used as an illuminant throughout the works There are in use 40 boilers and the coal consumption is over 1,000 tons The factory is sub-divided into different departments which illustrate the scope of the business The "Submarine" Department deals with telegraph cables, ship goods,

descended Sir Edwin John and his brothers took over the management of the firm, but with the consent of his brothers Sir Edwin John takes the position of senior partner and head of the firm Sir Edwin John descried the possibilities of Agra as an industrial centie, and this eventually led to the great development of the resources of the city and the surrounding country. The actual beginnings of the development were due to others, but it remained for Sir Edwin John and 'the firm of Messrs John & Co to carry the movement to success Prior to the year 1887, there were no modern industrics located at Agia and memories of the past, and the historic monuments for which the city is famous, alone contributed to its hold on the world's attention From having been a centre of government under, the Moghul



Sir Finn John, Kac

Emperors of India, the city and district had drifted into a back wate, and with the passing iway of the old Empire their importance had vanished On the face of it the locality did not seem favour able to such enterprises as those which have subsequently revived its importance Still, it was the centre of a fertile area, and the cultivation of cotton had been undertaken in the surrounding lands with ever increasing success A syndicate undertook the erection of mills in the vicinity, for the purpose of working up the naw material which was so plentifully grown in the neighbourhood

I hus, the Agra Spinning and Weaving Mills came into existence, about the year 1887. It seemed at first, however, as though the stagnation of the locality was too complete to be stirred by modern



Messis A John & Co Acry

ter Mr Goordhandas succeeded in obtaining the assent of the community to certain measures which were decided innovations on the customs of a socially backward com munity, such is the Bhatias He obtained the appointment of com missions and committees, formed of both orthodox and reform elements, to discuss and investigate the affairs of the community But his death at the early age of 28 years frustrated his endeavours to idjust the differen ces of his community This untoward event threw the Bhatia community into confusion once more, and no other member has ventured to fill the vacancy So that the death of Mr Goordhandas has proved a loss to his community no less than to his relations and friends

The JAPAN COTTON SPIN N E R S' ASSOCIATOIN, Navsarı Building, Hornby Road, Fort, Bom bry Established in India in the year 1895 Head Office, Osaka Established, 1882 President, Mr I Yamanobe This Association has been organized by the Cotton Spin ners in Japan to preserve and main tain their homogeneous interest by avoiding all internal misunderstand ings In 1882 it was presided over by Mr R Okada Director of Aichi Cot ton Spinnery In eight years it gain ed a vast experience and adapted itself to the growing circumstances and ultimately it was thought prudent to admit the cotton and varn merchants so as to have com plete control over the cotton trade with its different branches Committee of the Association negotiated with the Director Japan Mail Lines to transport the Bombay cotton to Japan on behalf of them selves. At the same time all the Cotton Merchants in Japan were in fluenced so as to form a union to act at the guidance of the Association for furtherance of trade. The late Mr Inmshedgee N Tata of Messrs Tata & Sons rendered meritorious service to this Association by assist ing the Nipon Yusen Krisha Co in transporting cotton to Japan in competition with the P & O Co who had, up to that time monopo lized the shipping business In 1895 it was resolved to send an agent to Bombay to watch the interests of the Association Mr T Washida was the first In 1896 The N Y Kaisha Shipping Company joined hands with the P & O, the Austrian Lloyds S N Company and the Florio Rubattino S N Company Now the shipping of cotton to Japan is done on an improved plan decided ly advantageous to the Japan cotton trade Mr K Z Ando, Agent in Bombay, was born in 1879. He was educated in Japan and after finishing his education he joined the Japan Cotton Association, arriving in India in the year 1904 as Agent

Messrs JAVERI & Co, Eng neers, Machinery Agents and Mill Furnish ers, Bombay and Ahmedabad The firm was founded in 1898 and is now composed of Messrs B \ Javeri, J N Javeri M M Bhatta and N N Shah Mr B N Javen alone carried on the business until he admitted his brother, Mr J N Javeri in 1904 In the year 1906, to meet their extended business, they admitted Messrs M M Bhatta, Engineer and Electrician late of the New Great Eastern Mills, and N N Shah as partners They are sole repres-nta tives for-Messrs Lupton & Place, Ld , Dobby Makers, Burnley , Messrs Willan & Mills, Loom Makers, Black burn, Messrs Samuel Walker & Sons, Calender Makers, Radcliffe, The Oldham Boiler Works, Oldham, I Casartelli & Sons, Manufacturers of Engineering Instruments, Manches ter, The Sprinkler Co, Ld, Manu facturers of the Morris Sprinklers, London, Messrs Lonsdale Bros. Manufacturers of Non Conducting Boiler Covering Cement, Blackburn, I Fairburn, Makei of Patent Split Motions, Burnley

Their godowns are situated near the J J Hospital, where they carry a considerable stock of Machinery and Mill stores, besides having a good supply on their premises in the Fort The firm's telegraphic address is "Climax," Bombay Telephone No. 327

They are also Agents for the Standard Electric Co, in which they carry out all electric lighting and power installations and also represent Messrs J & H Holmes & Co, New castle on Tyne, Manufacturers of Electric Machinery

The Branch at Ahmedabad is located at Sugar Bazar, where a considerable stock of mill stores is kept to meet the immediate wants of the many mills of that growing city

Messrs A JOHN & CO, Agra The foundations of this thriving business were laid by Anthony John. a Greek gentleman who came to India from the Levant in the year 1801 Anthony John was a merchant who made a speciality of diamond dealing, and carried on a large and successful business until the time of his death. The business was carried on at various centres in the North of India, the headquarters being located at Agra In those days, however, Agra was more a centre of historic interest than a place of commercial enter prise This, however has now been changed by the splendid energies of the successors of the founder of



Mi GFORCE A JOHN

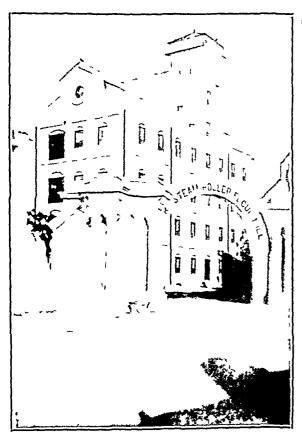
the firm, notably the present head of the firm, Sir Edwin John When Anthony John died, he left three sons, the second of whom, Nicholas Anthony John, carried on the business of the firm Mr N A John had a long and successful career as a merchant, and in his hands the affairs of Messrs John & Co flourished Up to the time of his death which occurred in 1891, the firm had not gone largely into the mill business, of which they were subsequently destined to make such a success Mr Nicholas Anthony John, at the time of his death, left nine children and to them, in partnership, the business

agement continues its successful career to this day but the works have been transformed. At present is an industrial centre. The first step Messrs A John & Co took after acquiring the Agia Spinning and

Weiving Mills and purch ising the ibove mentioned find wis the creeton of a fictory with the necessary plant for the manu licture of ice a commodity of which the town stood much in need Having carried this through, they ag un turned their utten tion to textile- and creeted a mill known as John's Spinning Mill This factory was manugu rited in the year 1896, and the building is turnished with a plant of 15 000 spindles with the most up proved muchineix throughout Having established this factory the firm built 'a Ginning Tactory, with a capacity of 80 double and 70 single quis and an hydraulic press

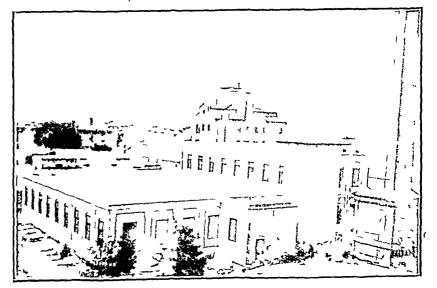
The Coronation Spinning and Weaving Mill, a very fine factory of 12,000 spindles, and modern machincry of the very best and latest pattern was the next enterprise, to which Messis A. John & Co devoted themselves This was inaugurated, with great ccremony in the year 1903 Su J J Digges LaTouche, 11 crint Governor of the United Provinces conserting to open the mill when ready for working. The firm have recently started a new spanning mill I lown as the Princess of Wiles Will. This concern is on a much extended scale, and is turmished with 25 000 spindles. The toundation tone of this mill was laid by His Grace Dr. Chailes Gentili, Archbishop of Agra, and it was opened in 1907

These factories constitute a remarkable group, and are istanding advertisement to the great business expactly and administrative ability of the firm of Messrs A. John & Co., controlled by Sir Edwin John who is the mister spirit of the concein. The estate on which are situated the several mills and factories is laid out with extraordinary care and is practically a garden, with green lawns and shaded walks, flower beds, etc. The whole is kept up in the best style, and no traces of the manufactures which are carried on at the mills is observable in the trimly kept expanse.



John's Kottle Light Mill

the Agra Spinning and Weaving Mill contains 14,000 spindles, and is fitted throughout with thoroughly modern and up to date machinery, the opportunity for completely renovating and modern z ng the michinery and fittings having been ifforded by a fire which destroyed the old machinery in the year 1900. The success of this venture convinced the firm of A John & Co of the possibilities in the new enterprise, and therewith mose the design of extending their enterprise in this direction. The firm acquired an excellent piece of land, about cighty acres in extent, on the banks of the river, and upon these premises they commenced to build a collection of the finest factories in India, which have now rendered Agra distinctive



PRINCESS OF WALES MILES

enterprise The proneers of the industrial movement were unfortunate, and after languishing for a



Late Nicholas Anthony John

few years the Agra Spinning and Weaving Mills very nearly went into houdation in 1890. It was it this critical period that Messrs A John & Co with \$1 Edwin John at their head, devoted their atten tion to the enterprise, and by business ability, foresight energy, changed what looked very like failure into conspicuous success This was all the more a remarkable achievement as up to this time Sr Edwin John's energies had been directed to quite other channels of business, and he had no experience whatever of the textile industry Of cotton he admits that prior to this time he had no knowledge But trusting to the intuition of a sound business man Sir Edwin launched his firm into the new business with confidence, and as Messis A John & Co, 1890, took over the affairs of the Agra Spinning and Weaving Mills, and in so doing laid the foundation of the com mercial importance of the district The business of the mill has pres

perced under the new management, and this pioneer of the mill industry at Agra, still under the same man



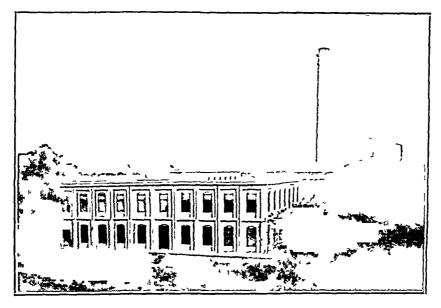
Mr. A. ULYSSES JOHN



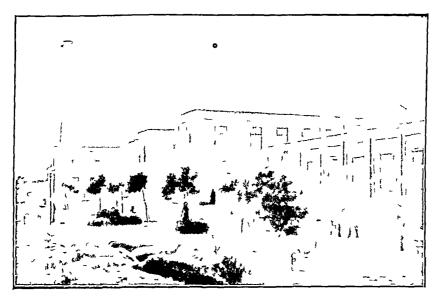
A JOHN & CO AGRA

A portion of the workmen's quarters

A JOHN & CO, AGRA



JOHN'S CORONATION MILL



CORONATION MILLS

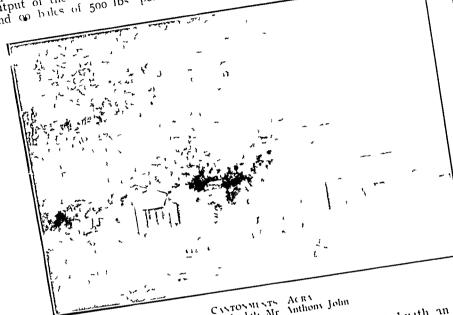
There are over 3000 hunds cm ployed at the mills whose work is supervised by 30 Europeans The output of the mills is between 80 and on biles of 500 lbs per day

congestion, built a model village for then workfolk and families village is in example of cle inliness and comfort It is find out in bread well kept streets flounded by sub-

picture-que, desond of dirt or squalor, and forms the example of what can be done in this direction in India Great e irchas il so been bestoved on the housing of the I propern staff for whom model bung dows have been

provided and the firm are now building them in excellent this house The firm of this house John & Co have Messes 1 John & Co have indeed set an example of what cm be done on the lines of modern enterprise in India, which is worthy of mutit on by cap talests interested in the industrial development of Lifting Agra from its stignint condition the country into a centre of life and indus try, they have shown the way in which similar enterprise may be successfully extraed out in Indian localities which are now 25 apparently back ward is Agra was in the pre-John times. The present proprictors of the firm ire Sir Edwin John, George A John and Voltsees John, who are working partners, H C John and Ars Jou-

dundis having financial interest land consisting of reces, nearly all freehold, is the property of the John dum



CINTONNINTS ACRY Anthony John Residence of the late Mr Anthony John

The Ginning Factory deals with about 2,000 maunds of raw cotton per day and the Ice Factory has an output of 20 tons daily In addition to the above, Messrs A John & Co have established a Flour Mill with a capacity of some 1,200 maunds of produce per day Besides the above pro perties at Agra the firm own a Cotton Press at Delhi, and also another Flour Mill at Delhi, tuin ing out 2,400 maunds per day They have also established large Ice Factories at Cawnpore, Lucknow and Meerut, as well as They are also large house propuetors in the various places named, owning about forty houses, which form a very ing together of so large a con gregation of workmen and operatives, who, with their families, number some 10,000 souls might have created a serious housing question at Agra but that Messrs A John & Co, with characteris tic energy and fore thought, grappled early with the problem and, for the purpose of relieving

stantially built huts fitted with an abundant supply of water and every Sanitary convenience Shade trees are plentifully planted through out the village, which is most



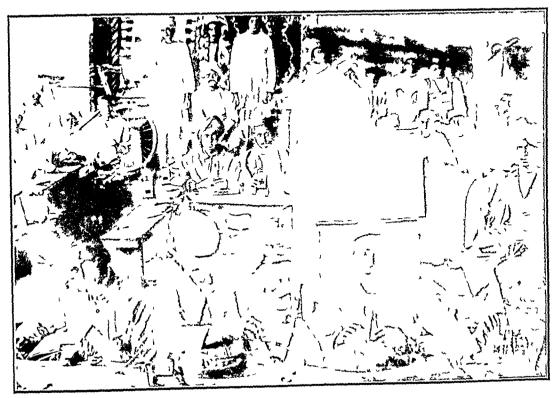
John's JATNIE KOTEE

Messrs J H JOHNSON & Co Proprietors the Pioneer Lock Works and G. neral Metal Foundry Alignik Huswell known concern was founded in 1885 by the sale proprietor Mr. I H Johnson The business of the firm is principally directed to the manufacture of locks mitual badges buttons cistings, and general hardware. They are Government contractors to the Whethy Department for the supply of but tons and all descriptions of metal military fittings ill over Index Their prices for work of the highest quality being reasonable they have found no difficulty in obtaining and holding these contracts to the satisfiction of Government | They do a large business in cistings etc. with private firms and talways outside the Government contracts Messis J H Johnson & Co ilso represent some of the best Lighth and French makers of motor cars, and they have sole agencies for the United Provinces for these. They ne experts in motors and under take repairs of all descriptions, no matter how intricate. They also import largely those descriptions of tools and hardware which cannot be successfully manufac



Mr. J. H. JOHNSON

tured in India The firm is about to set up a modern plant for the manufacture of watering and other carts patent night soil 16 movers, and tip carts for municipali ties etc. They hold a very high reputation for the manufacture of locks of all descriptions and in this line they run several exclusive pitents. They were the first to introduce the galvanising of metals into Ind i, and possess the largest patent plant for galvino plastic work criting on electropliting worl in gold silver nickel copper etc. They are the only firm in the Last possessing a button making plint and most of the affices supplied to the Militury Deput ments and Volunteer Corps are much ne stimped from special des Hence they ire able to compete with any of the home and Continental manufacturers Messis I H Johnson & Co have also laid them selves out to supply railway requi sites, and then patent point locks for rulway switches for securing facing-point locks at stations where



PIONEER LOCK WORKS

SIT EDWIN JOHN, son of the late N A John and grandson of Anthony John, founder of the firm of A John & Co, a Greek gentleman who came to India in the year 1801 Anthony John was a diamond mer chant but after his arrival in India he entered the British Military

Forces He was the first man to enter Bhurtpore under the British command, for which service he received a medal Anthony John subsequently started in busi ness as a general merchant, but made a speciality of diamond deriing He had three sons, of the whom second, Nicholas Anthony John, carried on the business ifter the death of his The father business was car ried on at various centres in the North of India, the head quai ters being at Agra Mr N A John saw service in the Artillery during the In dian Mutiny of 1857 He died at Mussoorie in the year 1891 leaving nine children His remains were in teired in the Catholic Cathedral Agra, and a high altar was presented to the Cathedral by the family in his memory The

subject of the present sketch, son of the above, was born in the year 1859 and went to England for his education, which he received at Stoneyhurst College, Lancashire He returned to India in September 1875 and entered his father's firm On the death of Mr

N A John in 1691, the business descended to the family in partnership, and Sir Edwin John took over the management as semor partner

Sit Edwin John has devoted considerable time to public service. He has carried on famine work under Government and was Secretary

ALTAR IN ACRA CATHEDRAL to the memory of the late N A John

and Treasurer during two famines in the time of Sir Antony MacDonnell He has served as a Municipal Commissioner and a Magistrate, and on local committees in Agra He was a member of the Municipal Council for 14 years and an Honorary Magistrate is well. These positions he had to resign, owing to pressure of private business connected with the growing from of John & Co. Ecclesistical affairs have demanded a great deal of his attention, and his firm contributed in altar to the Cathedral in commemoration of their brother

ind sister, who ire buried there, and have also presented many decorations to the same edifice He his twice visited Rome, and his been granted in audience by the Pope to whom he owes his Knighthood His residence in London, where he retires every scar, is his mansion at 151, Gloucester Terracc, Hyde Park, Lancaster Gate Sir Edwin John's firm recently offered Agra a free hospital at a cost of Rs 50,000, but this offer was declined by the Gov ernment Edwin, however, intends to bestow this gift on the city, as a private matter, as soon as he can secure the necessary law Sir Edwins career has been a splei did example of what can be accomplished by energy and business capacity, combined with a genius for affans The mo dern industrial development of

the City of Agra has been practically his work as he is the moving spirit of the great firm of Messrs A John & Co, which has lifted Agra out of mediavalism to its present prominent position as an industrial and mercantile centic

and Probyn of the Civil Service, fugitives from Oudh He subsequent ly did good service in the suppres sion of the rebellion On the relief of Lucknow by Sir Colin Campbell, he joined the Tield Force in the advance on Fatehgarh, and had the honour of being mentioned in despatches to the Home Govern ment, by Lord Canning For his services, Mi Gavin Jones received It the close the Mutiny Medal of the Mutiny, his brother's home being broken up Mr Gavin Jones abandoned indigo and commerce, and followed the original bent of his mind He joined Messrs Nous & Waller in 1862, as Engi neer, in their contract for the construction of a section of the Great Indian Peninsula Ralway between Jubbulpore and Hoshaugabad Here he unfortunately confincted ma lana, and was forced to leave India for a while He went to England to recruit his health, and while at home took service as an engineer in the construction of a branch of the Great Eastern Railway while the Elgin Mills Company at Cawnpore had been floated and was in need of the services of an efficient Engineer in the construction of the Mill, and while in London in 1865 Mr Jones received from the Chairman of the Elgin Mills Co an offer to come out for the erection and management of the Mills Mr Jones accepted, but d d not remain long with the Company Some years afterwards, however, when the Company went into liquidation, Mi Jones again took over the management for the syndicate who had purchased the concern His management was a great success, as set forth in the account of the Elgin Mills given in another part of this publication After a few years Mr Jones left the Elgin Mills and started the Muir Mills which is still a strong going concern, and again, later, started the Cawnpore Woollen Mills The latter Company has proved a splendid success, and has proved a valuable and to the Government of India in equipping the Indian Army with requirements previously only obtainable from England Another enterprise, which owes its inception to Mr Gavin Jones, is Cooper, Allen & Co's Boot Factory at Cawnpore He designed and built the tannery and works

This concern has also been eminently successful, now giving employ ment to thousands of native hinds and large staff of Europeans In 1887 Mr Gavin Jones retired from India and went home but the East called him back, and in 1896 he returned to found the Em pire Engineering Works, a success ful and steadily growing concern now managed by his son development of Cawnpore into the large industrial centile which it has become, is largely the work of Mi Gavin Jones, than whom the British in India have had no more valuable citizen There is hardly a factory in Cawapore that is not in some way, directly or indirectly,



Mr GWIN JONES

the offspring of his biain. The natives in the town and environs owe him an incalculable debt for teaching them to utilize their labour on the most approved European lines, and the Government is deeply indebted to him for turning Cawnpore, the town of sad memones, into one of the most valuable assets of the Indian Empire.

K L KABASI, BA, of Messrs Shawoo and Kabasi, Daisi Jute Merchants of Tala, Calcutta, and proprietor of the Swadeshi Cigarette Manufacturing Company, Bengal, comes of one of the oldest families of Jadurhati, Sub division Basirhat

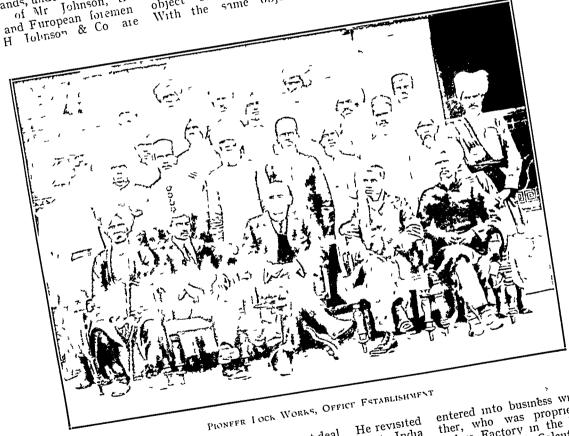
He is closely related to the Shawoos and Ballavs, zemindars of Basiihat and millionaires of Sham Bazar His great grandfather was Dr Lalchand Kabası, an eminent Bengali physician, whose reputation is remembered to the present day Mr Kabasi had the misfortune to lose both his paren's while still young and he had to rely entirely on his own efforts to obtain an education Despite these adverse circumstances rendered more diffi cult by ill health he graduated from the Duff College, Calcutta, in the year 1897 His inclinations tended towards independent commercial pursuits rather than to Government service of the law, and having studied science in its practical aspect he devoted his time to commercial chemistry and discover ed 1 cheap and effective process of manufacturing cigarettes from In dian tobacco With a view to start ing a digarette manufactory at Cal cutta, Mi Kabasi travelled through the tobacco producing districts of India In 1900, he commenced manufacture but at the outset was unfortunate, as his factory and stock were swept away by a heavy This crused him to desist flood from his efforts to establish the industry for a while, and he accepted a post as head master in the Kanchantola H E School real Pakur, where he stayed for a year He then took up the head master-hip of the Dhankuna H E School, and was appointed a subinspector of schools, in the 24-Parganas in 1903. His natural Parganas in 1903 bent towards commerce however led him to abandon this post when the Swadeshi agitation seemed to offer an opportunity to local manufactures, and he established the Swadeshi Cigarette Company equipping the factory with auto matic machinery for manufac turing cigarettes in quantities, the whole process of minufacture being carried out by local labour

Messrs KAHN & KAHN, Mer chants, Calcutta This firm is a branch of the long established business house of the same name, which was originally founded as Harrison and Kahn in the year 1864 In 1887, the style was altered to that by which it is now known, Kahn &

mail trains run through, are largely in favour and are used on all the railways in India Several Continental railways have also adopted them They lay themselves out to factured metal line They also possess a large timber yard for the possess a range unituer yard for the supply of all descriptions of wooden structural work. The first employs about 4-0 l ands, under the personal and 4-0 range, ancer the personal supervision of Mr Johnson, the proprietor, and Furopean foremen Mesers J H Johnson & Co are

an apprentice with Messrs Jessop & Co, of Sheffield, and after serving his indentures he travelled in various parts of the world till he came to India in 1878 time he was engaged in the ter industry, he also served on various railways and in the Telegraph Department, and was in mer cantile employment for a time He has turned his hand to many things in his time, always with the object of acquiring knowledge With the same object he had

born in the year 1835, his father being the owner of considerable property, indigo factories, ctc, in the Jaunpur District, U P Mr Jones carly showed tendencies to wards an engineering career, and was educated with a view to enter ing the profess on of 2 Civil Engi neer An untoward cucumstance, however, interfered at first with this design. His father was a heavy loser by the future of the Union Bank at Calcutta and short ly afterwards died Mr Jones then



refre-ented in Madras by their regressing in magnes of their reents, Messrs Ramsay & Co, in Rombay by Messrs Patrick & Co, and their hard for their parties of their land their hard for their land their hard for their land their hard for their land the and they have further agencies at And they fitte initial agencies at States (Australia), Hong Kong and Natal (South Africa) They import motor cars and own a garage for motor cars and own a garage for letting out cars on hire

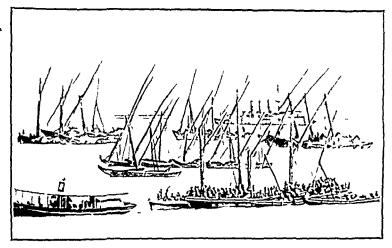
JOSEPH HENRY JOHN-SON, sole proprietor, J.H. Johnson & Co Proneer Lock Works, was born in 1858 in Yorkshire, England, and educated privately in the He was placed as same counts

travelled a great deal He revisited England, and on his return to India in 1885, at the suggestion of certain military officers, he established his present firm and business, which he has carried on with great surcess, ever since

Mr GAVIN JONES, Cawnpore This well known gentleman, to whom such great industries as the Elgin Mills and Muir Mills owe their prosperity, is an Indian vete ran who has had a most eventful and distinguished career He was

entered into business with his bro ther, who was proprietor of an Indigo Factory in the Farukhabad District, and left Calcutta to reside at Fatehgarh This was in 1856 at year after came the outbreak of the Indian Marketine Control of the Indian Marketine Co of the Indian Mutiny The Fort of Fatehgarh was besieged by the mutineers, and of the defenders only Mr Gavin Jones and one other escaped with their lives In this escriped with their fives in this siege he lost his brother who was one of the garrison Mr Jones succeeded in reaching Cawnpore in company with Messrs Edwards induced to ship coal to a large extent as a freight item on the outward voyage from Great Britain and clsewhere, and load with exports of ill kinds, such as grain, cotton, ctc, on their return voyage Speculation at that time in English coal was rampant, on account of deliveries

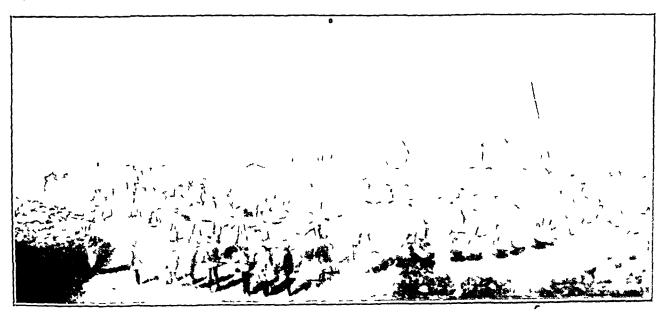
brokers Mr J T Kunka was not slow to grasp the situation, and about six years ago in connection with his brother, in addition to continuing the work of coal brokers, they began to work as Coaling and Landing Contractors. As brokers they had already introduced the



Messrs J F KARAKA & Co's COALING THEI

being made at very distant dates from the time that the contract was entered into. The importation of Bengal coal from Calcutta having replaced English coal, speculation soon disappeared and naturally caused a great reduction in the earnings of different varieties of English and Welsh coal, and in the last decade of the 19th century, when Bengal coal was first brought to the Bomb warket, the firm was foremost in introducing it with given success to consumers, is they had the advan

tage of having well est bl shed connections in this line. The result is that various description or coal from the Bengil Colliers are at pres nt reaping the fruits or die early and strenuous efforts of this firm. Although the firm's business as Couling and Landing Contractors is of recent date, they have been able to secure for thems lyes alluse amount of business. They handle coal for various steamships connect ed with the Mercantile Marine and Government Savices and the Bonbay Port Trust and hold cand ats from the Municipality or bourters and the Royal Nivy They hada 9 the coal amported in Bentlin by Cory Bros Ld who in the richest and the Jugest coal contractor in the world. They possess amount lighters to early coal to ma nem the bunders, but on being sie ted as the contractors to the Royal Navy (of which they are very proud), they built a further fleet of wood and iron lighters which are specially adapted to the requirements of fast conling. They have two steam launches one of which is considered a very powerful tu, The Graphic of London while discussing their work complimented them on the feet that with such contractors in case of emergency, Bombay may be depended upon to coal our biggest wirships in about twelve hours As Nivil contrictors they had



Me see 1 1 Kikiki & Co & COIL SHIDS

The Calcutta branch is the latest to be opened, having been established in the year 1901 under the joint management of Messrs Walter Lomas and Robert Bayles The firm has been estab lished in Bombay since the yeur 1850 and is under the present management of Mr Percy Clare, in succession to Mr O St Gour There are other pranches at Della and Amritsh and at Lyons (France) Messis Kahn & Kahn do a very extensive business in Chinese and Japanese piece goods which they export to the United Kingdom and the Continent of Europe A considerable business s dove with the United States, this connection being attended to by their I vons The partners in the House firm are, Messis Herbert Ernest Kahn, O S Darner Kahn, E Philippi and Max Adler

Lalla KANHAIYA I ALL, Rai Bahadur, Banker, Cawnpore, was born at Cawnpore in 1871, and educated at the High School, Cawnpore After passing out of school he enter ed the service of Government, joining the Treasury Department His abilities secured him promotion in



LAILY KANHANA LYLL

this department, and he was in time promoted to the position of Govern ment Treasurer, which he has held ever since Lalla Kanhaiya Lall has interested himself in public iffairs, and in the year 1807 became a member of the Municipal Council of Ciwnpore. He was appointed Vice Churman of the same Munici pality in 1898, which post he has filled continuously ever since. He received the additional honour of appointment is Honority Magis trate in 1899 He is ilso i member of the Executive Committee of the Dufferm Hospital and also of the Hindu Orph in igc, and s a member of the Sri Ramfalla Committee In private life, he is a large landowper and the propractor of several zemmduies He also curres on a bunking business, that of Messrs 1 alla Ram Ritin Ramgopal Barker, which he inherited from his father, the Inte Lalla Sidh Gopal and his grand fither, the late Lilla Rim Ritin Lalla Kanhaiya Lill is also i Dur barr and sivery active in all local affairs at Campore

Messrs J F KARAKA & Co, Cooling and Landing Contractors,



Mr J T KAPAKA

Sudar's Palace, Bombay Part ners J F Karaka and B F Karaka, sons of Fardunji Framji Karaka, Justice of the Peace of the City of Bombay, a Parsee gentle man of a very well known family, who started the business in the year 1876 as a coal broker Being well connected with those who were in

the coal trade from the time Linglish and Welsh coal in ide their appearince in Bombay. Mr. Lardunj attuned prominence from the very commencement and soon became



Mr. B. I. KALAKA

the leading coal broker a position he has mantaned ever since firm is now known by the title of Firdum Frimm & Sons consumption of coal in 1876 was comparatively small in Bombay and of very little significance in the outlying districts of Bombay only luge u cis of English and Welsh coal then were the two ralways are GIP and BB & C I Only a few cotton mills existed it the time, and the demand from these for coal was not very considerable. These railways did not then cover so extensive an area as they do at present, and many locomotives on the line burned firewood, and the same fuel was used in connection with other in dustries in the districts demand from the ships visiting the port was also very small, and the whole of the tinde of the port was carried on by sailing vessels Although the coal trade of Bombay then was narrowed down within such a small compass wet with the industrious efforts of Mi Faiduni, coal took its proper place as one of the most important factors in the tinde of the port as merchants were

and which has been brought thoroughly up to date with modern tools and appliances for the manufacture of jewellervand gold articles, has onabled the firm to improve even upon the excellent class of goods in which they previously dealt, and at present the manufactures of the firm are quite in the first rank. The firm gives employment to many first class artificers in the various branches of the goldsmith's and jeweller's ait, and in all employs about 250 to 300 hands The entire business is under the personal supervision of the partners, who are both highly experenced The firm makes men in their trade a speciality of diamond cutting, and specimens of their work are always



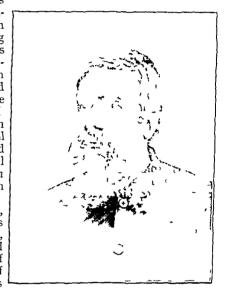
MOTICHIAD SETT

on view at the Show Rooms, to which the ground floor of the building with an excellent frontage is devoted The entire facing of the building is of marble and of unique and striking design in the city Although the business of Messrs Labhchand Motichard is carried on in quite first class surroundings, the prices of their Jewellery, etc, are very moderate This they are enabled to assure by the fact that they are manufacturing jewellers, and the public in dealing with them obtain their goods with out middle profits The firm made a very prominent exhibit at the Industrial Exhibition at Calcutta, 1906 7, where they erected a beau tiful stall at their own expense, the

walls, being lined with mirrors which set off the excellent exhibits with great effect. This exhibit was a very successful proof that Indian artisans can produce jewellery in the modern style in competition with European workmen To this end Messrs Labhchand Mot chand have established a free Technical School with the object of teaching the better class of the Indian people the ut of manufacturing jewellerv suited to modern requirements in the European and Indian styles This was practically a necessity to the bus ness as the men who profess the art as a caste profession are unieliable in the extieme, and the firm has experienced considerable inconvenience owing to the delays occasioned by their in egular attend-At the exhibition the firm exhibited diamond cutting also machines and other appliances as used in diamond cutting The process of diamond cutting was shown in practice at the firm's stall and excited much interest among the Indian visitors, specially to H M the Amir of Afghanistan, to whom the art was practically unknown till introduced by Messis Labhchand Motichand The Technical School does not confine its instruction entirely to the jeweller's art, though this is its main purpose The curri culum includes English literature, Sanskrit, Hindi and Bengali It is open to all Jams and Hindu youths, and provision is made for board and lodging for a certain number of Jain young men The munificence of Messis Labhchand Motichand has tendered the advantages of the school available, free to all classes whom they invite Babu Motichand Nakhat, the junior partner, has also benefited Calcutta by the establish ment of a large Dharmsala or travel lei's house at No 9, Shama Bai's Lane, Bara Bazar, in memory of his father the late Lalla Phoolchand, who was in his time Mookim and Court Jeweller to H E the Viceroy These premises cost about Rs 60,000 and are quite up to modern require ments in vent lation ai d sanitation They are intended for the use of Jains and Hindus Messrs Labh chand Motichand have received the honour of appointment as Mookims and Court Jewellers to H E the Earl of Minto, the V ceroy, and have also been appointed Jewel-

leis to H H the Nizam of Hyderabad, H H the Maharaja Gaekwar of Baroda, H H the Maharaja of Mysore, H H the Maharaja of Cashmere, H H the Maharaja of Cooch Behar, Raja Sir Amar Sirgh, Commander in-Ch ef of Cashmere and H H the Maharaja of Benaics, and are patronized by the ch ef noblemen and gentry of all the Provinces of India

Mi S K I AHIRI Of all In dian gentlemen who have taken up the publishing business, no name is more widely known and respected than that of Mr S K Lahiri of Messis S K Lahiri & Co, Calcutta He was born in 1859 in Calcutta



Mr S K LAHIRI

and is the second son of Mi Ramtanu Lahiri, a gentleman of the highest and most unblemish ed character. The sterling honesty and in egrity of the father have been sedulously cultivated by the son, and these qualities have ever been reflected in his business transactions. Mr. Lahiri was educated in Krishnagar. A. V. School, and in 1879. Joined. Krishnagar. College But ill-health unfortunately compelled him to give up his studies. From his boyhood. Mr. Lahiri was ambitious to possess a business of his own. In 1883, under the patronage of the late Pandit I. C. Vidyasagar, C.I.E., a very intimate friend of Mr. Lahiri's father,

the honour to coal the ships of the fleet which conveyed H R H the Prince of Wales to India during the Royal Tour, and they found an opportunity to prove their mettle by coaling these ships in the fastest time ever established One of the ships, H M S Terrible, was coaled at an average of 153 tons per hour, which gained for the firm the first place on the record list In certify ing to the good work done, the Commander made the following state ment -- "Had it not been that the work of trimming the coal into bunkers, towards the end, became so difficult, the men would have estab lished a still higher record " Local newspapers including the Tames of India and journals in England and Germany thought the event of suffi cient importance for favourable mention The brothers Karaka are the nephews of the late Mi Dossa bhoy Framji Karaka, CSI, who enjoyed the trust and good grace of the Government

Messrs KERR, TARRUCK & Co This firm was founded by Mr Tarruck Chundei Siicai, a Bengali merchant, in conjunction with Mr James Keir and Mr William Barlas Jameson, in February 1873, under the auspices of the celebrated calico printers and Turkey red dyers, Messrs F Steiner & Co (now Ltd), of Church near Accrington, whose agency in Calcutta had been under the management of Mr Tairuck since 1855 Mr James Kerr retired from the firm in 1875 and Mr Tarruck died in 1888 Mr Bepin Bihari Sircar and Mr Nalin Bihari Sircar, CIE, the two sons of Mr Tarruck, then joined Mr W B Jameson, and the business was continued by them till the end of 1904, when Mi Jameson retired Mr Nalin Behari also died in 1906. The present partners are Mr Bepin B hari Sucar ind his son Mr Birendra Nath Sircar

The firm have a branch at Delhi, which was opened in 1894, and also sub offices at Cawnpore and Amritsai. Their chief business is in imports of all kinds of piece goods, metals, and sundry hardware. They are the agents of the Union Assurance Society of London (Fire), Sun Life Assurance Co, of Canada (Life), and Continental Insurance Company of Mannheim (Marine)

Messrs D T KEYMER & Co, 5, Mangoe Lane, Engineers, Merchants and Shipping Agents

This is the Calcutta branch of the old established firm of D J Keymer & Co., London

In 1844 Mr D 1 Keymer joined the business then known as R C LePage & Co, as a junior

Mr LePage retired in 1877 Mi D J Keymer taking over the busi ness In 1882 he was joined by his eldest son, Mi D T Keymer, as Managing Paitner

Mr D J Keymer died in 1894 The business has been carried on at the same address since 1847

The branch in Calcutta was opened in 1900 and holds various important agencies, amongst others, those for the Electric Construction Co, Ld, Wolverhampton, Caillet's Mono rail and Milner's Safe Co, Ld and is under charge of Mi A McDonald, well known in railway engineering circles

Mr D T Keymer has travelled widely and takes special interest in educational work in England

The KHATAU MAKANJI SPINNING & WEAVING Co, Ltd, Bombay, was floated in 1874 as a Joint Stock Company, with a capital of ten lakhs of rupees The original Directors were the Mahomedally Roggey Hon Mr and Messrs Cursondas Vullabhdas, Dwarkadas Vussonji, Amroodin Abdool Latif, Pandurang Raghoba, and Jairai Makanji The Mill has always made the weaving of fine cloth and the spinning of fine yarns its speciality and, as a further enterprise a large dyeing and bleaching house was added in 1902 Under the able management of Mr Gordhandas Khatau, the cloth produced dyed and bleached has been so good in quality and durability that at the Exhibitions held under the auspices of the National Congress as well as at the various Provincial Conferences, this Company has been awarded the Gold Medals present Board of Directors comprises Mr Gordhandas Khatau (Chairman) and Messrs Gordhandas Goculdas Tejpal, Mulraj Khatau Dwarkadas Dharamsey, and Tricumdas Gordhandas

Messrs I ABHCHAND MOTI-CHAND, Mookims and Court Jewel-

leis, Maible House, 41, Dhurrum tollah Street, Calcutta This flourishing business was started by Messrs Labh Chand Sett, grandson of the late Kalumal Sett, an influential Indian merchant and well-known banker in the mercantile community of Calcutta of his time, and Moti Chand Nakhat, son of the late Phool Chand, Mookim and Court Jeweller, a famous and honest jeweller in Bengal, and one of the most influential members of the Jain Community of Calcutta, some ten years ago The partners' skill in their line of business, the excellence of their manufacture, and the quality of the precious stones and jewellery in which they



LABHCH AND SLTT

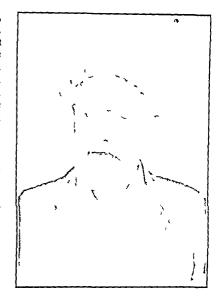
dealt, soon obtained a wide reputation for the new firm, and for some eight years they carried on bus ness at then old premises at Cotton Street with increasing suc-So much so, that it became necessary to secure larger premises in a more suitable locality Accordingly the "Maible House" in Dhuriumtollah was built purposely for the accommodat on of the firm, which has since carried on business at that centre Since the establishment of these premises a further great impetus has been given to the firm's business, which has attained very large proportions The spacious factory, which is on the premises,

Bhatia Mahajan has, in recognition of his singular services, placed his life size oil painting in the Mahajan Wadi, as a tribute to his memory

At present the management of the firm is in the hands of the senior partner, Mr Damodar Lakhmidas, JP, who is a young and energetic member of the enterprising Bhatia community, and has shown a high capacity in the management of h s firm's large and varied business. He is also a Director of several Joint Stock Companies, viz The Lakhmidas Khimji Spinning and Weaving Co, Ld, The Iricumdass Mills Co, Ld, The Bombay Cotton Manufacturing Co, Ld, The Bombay United Man ufacturing Co, Ld, The Jivraj Baloo Mills Co, Ld, etc, etc The Government of Bombay has been pleased to nominate him as an Honorary Presidency Magis trate for the City and Island of Bombay Following the footsteps of his worthy father, he also shows a liberal and generous heart, is a benefactor of the poor and the needy, and encourages liberal education, literature, and the fine arts

Messis ABDOOLABHOY and JOOMABHOY LALLJEE, Mer chants and Government Contractors Head Office Khoja Mohalla, Bom bay, India Branches - Calcutta. Chittagong Acen, Macala, Beibern, Bulhar, and Zaila This firm deal in all kinds of grains, exporting the same from Bombay, Calcutta, and Chittagong They also export yain and piece goods, coal, salt, mory, pearls, mother of pearls, shells, coffee and hides In their import branch they deal in all kinds of sugars, Euro 1 ern and Aden salts, and piece goods They have agencies in all the chick ports ii Europe and America, and caux, purchase, or sell, merchandise and goods, on account of approved constituents, at a very reasonable commission. They are registered Con tractors to Government at Bombay, Calcutta, Aden, Berbera, and Somali land, and supply all the required grain, clothing and transport materials at military stations for men and animals At Macala they act as Agents for the Bombay and Persia Steam Vavigation Company, Lim The business was originally started by Mr Lalljee Sumar, an

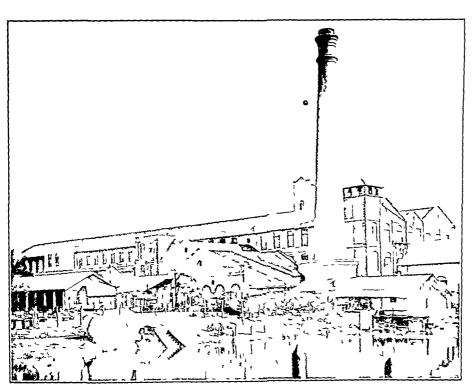
inhab tant of Cutch, who belonged to the Khoji community (an Indian sect of Mahomedans) He first



Mi Abdoolabhoi Lilljee

established business at Macala (Arabia), then at Aden, and after

wards in Bombay about 60 years ago Mi I alljee Sumai left three surviving sons, Messrs Hajeebhoy, Abdoolabhoy, and Joomabhoy, who were all well trained in business methods Mi Abdoolabhoy has travelled as fai as Arabia and China The firm established a steamship line between Bombay, Kathı awar Cutch and Karachi. and another one for Goa and the Colomandel Coast There were five steamships, besides several steam launches and boats This branch was managed by Mi Joomabhoy, who was a J P of Bombay and a Municipal Commissioner He died about 18 years ago leaving one son, Mr Fazalbhoy, who is also a Municipal Commissioner At the death of Mr Joomabhoy, Mr Hajee bhoy separated from the firm, which was re organised under the pres



The LAKHMIDAS KHIMJI SPINNING AND WEATING MILLS

and Rift Petry Mohan Mulerp CSI a favourite pupil of the elder Mr Lahn, he stated a bool selling busines on a very modest scale In a short time he begin to publish school books for Indian children The business mere ised rapidly, ml Mr Inhm, by dust of his industry and persevermee, no ccupies a high position imong Indian publishers. Of the many inthors whose works he has publish ed, the names of Su W W Hunter KCSI Riji Peny Mohun Mukerp CST Justices O kim de Beverley Tield Rumpin Ameer The Pargiter and Caspersz Mr R C Dutt CIL Si Henry Cotton Kt Kesi Sir Henry Prinsep, Kt KCII Su Guind's Bineric Kt Rex Protan Chandra Mazoomda Prof P K Libra w v Pindit S N Sistri MA Professors Rowe and Webb are worth mentioning is they show that he enjoys the confidence of many representative men. The Inglishman of the 14th March 1906 made the following remarks on Mr S K Lahiri's services to the publishing business in India -

"Mr Lahm holds very much the position that is held at home by such men as John Muray Miemillan, or Longman Mr Lahmis a gentle man of good birth and respectable early training who has successfully devoted his abilities and opportunities to the circuition of a vist publishing and bookselling business specially in the educational line."

Messrs LAKHMIDAS KHIMIL SONS & Company, formerly Lakhmidas Khimji & Co Lstab lished 1863 Hend Office, Oriental Buildings, Hornby Road Bombiy Originally started business as picce goods merchants, but are now con siderable owners of Cotton Mills besides acting as Mill Secretaries, Treasurers and Agents The firm was founded in Bombay by the well known philanthropist ind social reformer, Mr Lakhmidas Khimji, J.P., a Hindu, Bhatia by caste Before the formation of the firm he carried on a piece goods business with his brothers and in early life acquired repute as a successful and shiewd man of business Mr L A Wallace, connected with Messrs Futh, Sands & Co, wanted then to establish his own firm, and succeeded by the co operation and support of the Compace who become granules fool to be the import and export but we. Mr. I dhand as khimpe does to be the Lucheh him in allevia. The Burnsh Tradic, C. I d. I common the first 10 foot of lemaning on the Break foot of lemaning on the Break foot of lemaning.



The Lite Mr. Lytimus Kinsp

than 35 years. The result has been unique in the history of Indian trade An original share of Rs 1500 is now quoted is high is Rs 0,000. In 1858 when the elicome tax was first levied, causing great discontent. especially among the trading communities, who loudly complained of the inquisitorial character of the tiv Mr Takhmidis Khimp was approached by the Bombas Gos ernment, is he posses ed great influence, especially in the Native mere in tile world and was asked to help in reconciling the business people to the new impost and in assessing then true unual income. He become plished the commission so satisfac torily that he received thanks from the Government through Sir George Russell Clerk Herebeved, to a large extent, the famone stricken people of the Decem particularly of Sholapin, when the famine was working its worst riviges and again on this occasion he was thanked by the Government for his benevolence and public spirit At the time of the Bombay nots in

real party of the rack administration of extreme to the to the force rest of methods to be possible that I the distance of the first of en in the court of the rule de entry total to the distriction mer tint city of to m Lithrides i' though others 1913, 41 Kr rip Oath M. innis et tribut Mt or regard William School of the Mr. I di i richi utable profits Ma Khupi Spr. IV. r. to. up the front or, the fitted by b. appoints I to Set a Treatment of New Cytal K meeting H MI of the , so piell claim's to hards

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Mr. DAMODAL LARIMIDAS

h mself in the matter there was neither order nor regularity observed, but his regulations not only satisfied his own caste brothers, but the other Hindu communities have also adopted the system. The proprietor of the business, was born in Bengal in 1881, and was educated in the Hills He was brought up to the profession of mechanical engineering in H M's Mint, Calcutta

Messrs LOUIS DREYFUS & Co, Grain Shippers, Wheeler's Buildings, Hornby Road, Bomb iy Istablished in the year 1905 Partners -Messis Leopold Louis Dreyfus, Louis Louis Dreyfus, Charles Louis Dreyfus, and Robert Louis Dicyfus The firm was founc a by Mr Leopold Louis Drey fus 1 ne year 1850, to carry on the business of Grun Merchants and Bankers, with its Herd Office in Paus, and branches in various parts of the world The Bombay branch principally export giain, wheat and seeds They have branches in Calcutta and Karachi, and buying agencies all over India The firm usually charters its own steamers, and has warehouses at de eient Indian sea ports The firm is a member of the Chamber of Commerce, Bombry

LEOPOLD LOUIS-Mı DREYFUS, the founder of the firm of Louis Dieyfus & Co, is Consul General for Roumania at Paris, and "Officier de la Legion d'Honneur" He has also been decorated several times by the present and former Czars of Russia Mi Louis Louis Dicyfus eldest son and partner of Lopold Louis Dreyfus, is a member of the Chamber de Deputes, Paus Mi Chailes Louis Dieyfus, second son and also partner of the firm is a Chevalier de in I egion d'Honneur, and the young est son Mi Robert Louis Dierfus, also a member of the firm, manages the Banking Department in Pais

Mi WILHELM JEELSOHN, Manager of Louis Dievius & Co, Bombay, obtained his commercial knowledge and experience in Germany, Belgium London, and South Maca, in connection with his firm He came to India in December 1905 to take charge and manage the Company's branch in Bombay Herpiesents the firm on the Bombay Chamber of Commerce

Messis T P LUSCOMBE & Co Mechanical and Sanitus Engineers Coachbuilders Manufacturers of Fishing Tackle, Campaquipaga, Gunfittings, and Wrought and Cast-

iron work of all kinds L censed dealers in Fire arms and ammuni Steam works and Foundity, 5, Goodshed Road, Allahabad Es tablished, 1872, by the propiletoi, Mr Thomas Popham Luscombe The works were started at first in quite a small way but owing to the reputation which Mr Luscombe has gained in the business they have developed, till they are now in a position to give employment to 150 to 200 hands, including two Euro perps These are nearly all skilled workmen, who have been in the ser vice of the firm from 10 to 25 years The works are equipped with the latest machinery for non and gen eral engineering and cab net work



Mr 7 P LUSCOMER

There is a foundry attached, and altogether, there are some 50 machines including steam hammersetc, at work. The firm makes a speciality of sporting requisites of all kinds, fishing tackle guns campequipage and repairs to all kinds of sporting tackle and fire aims. The premises cover three and a half acres, besides compound, itc, and are a model of chanliness and order.

Mr Thomas Luscombe the founder and proprietor is a native of Donny brooke, near Dublin Ireland where he was born in 1845. He entered the merchant-service, in which he served his apprenticeship in the White Star Line but in 1860 he gave up the sea to proceed to the Austral 11 Gold fields where he was revealed with the success. Coming to Indian 1863 he entered the serve of the East I dim Ralway Compand was for a time employed as a trivelling teletim-spector and private detective. Fishing had a great attraction for him as sport, and he has established a time as an expect in the fit of he has a noted fisherm of an the telenowledged head of the hing field and cump equipage trace of Indian

Messis MACKINNON " Proprietors The Old Diewery Mr. soone This flour shing busines is of over sixty years standing having been established in the early forties, by the late Mr Isothe In the year 1850 Mr Bobbe w.s. succeeded in the business by the late Mr John Mackinnon, under whose management the concern grew in importance. Mr Mackinnon effected great improvements in the plant and buildings. He was ably assisted by his two sons. Mr. Philip. Walter Mickinnon and Mr Vincent A Mackinnon In the year 1870 Mr Mackinnon senior died and his sons succeeded to the busine's which they proceeded to en large with conspicuous success By their energy bicked by experience, they give Mussoorie beer a reputation which enormously increas ed the demand so that whereas in the cult days of the business the whole output for the year was but 100 hogsheads, at present some 7 000 hogsheads are brewed at the Old Bieneri The brothers Vackinnon have very largely idded to the brewery premises having built large and commodious buildings store houses and immense cellurize. The premises now cover about six acres They have also immensely improved plant which is ill now thoroughly up to date, and comprises the most modern systems of breving Every appliance necessary to the browing of high class beer is found on their premises. Water power is used for the driving of the marhin ery of the brewers in America wheel being used for obtaining power All the water verd to browing purposes is drawn from spring of great purity near the bres ery which has a temperature not exceeding 56 degrees and which by

ent style, with the following partners -Messrs Abdoolabhoy Lalljee, Fazulbhoy Joom ibhoy, Ismailbhoy Audoolabhoy and Nusserkhoy Abdoolabhoy In the year 1905, Mr Hoosenbhoy Abdoolabhoy was also admitted as a partner All the members of this firm have travelled a great deal for the purpose of gaining practical insight in commercial matters, and have therefore been considerably bene fited by their personal knowledge of different countries and their inhab itants, the i habits customs and ie quirements. Mi Y I A I allice has recently vis ted Fugland for this pur pose and expects shortly to be admitted as a partner Mr Abdool ibhov Lalliee is a lice President of the Khoin Shia Isna Asii community, of Bombay, and he is well known for his charities and ready help in the cause of education

Messrs W LENOX & Co, Manufacturers and General Merchants, 6 Commacral Buildings, Calcutt, established in 1905 b, Mr W L Hawood The business was at first carried on at No 50, Tindal

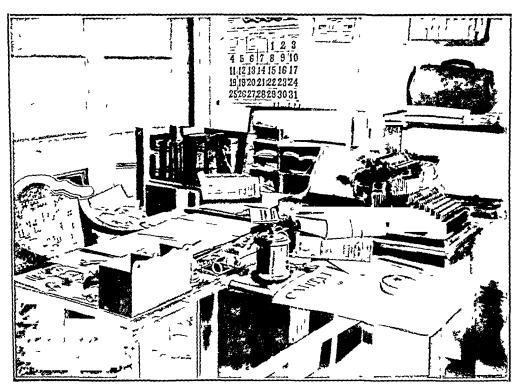
Guiden Road, Howrah, where Mr Huwood, Ьy assisted three Europeans and a staff of natives, ms talled the newest machinery, un by steam plant, and maninfactured bestos and mica non conducting compositions (the excellent qualities which are well known 1,1 Engineering circles)

The former is known as the "Lennox As bestes" Composition, for covering all steam heated surfaces, and the latter as "Jones" Patent" Mica Compositions

This composition is genuine and identically the same is that man ufactured by Messis J. D. Jones & Co. in d. sold by that firm under the trade mark of 'Gray te,' the heerse for the munificture of the same having been granted to Messis W. Lennox & Co., as the result of a law-unit in the High Court of Calcutta.

Besides the above compositions, Messis W. Lennox & Co. ilso curv on business as manufacturers of lubricating mica powders and paste, micrayle grease, crushed micr, mice chimneys, chimney pro-tectors and globes, mice boxes and ting use In 1907 owing to the firm's business connections having extended, not only throughout India Burma and Ceylon, but to Europe and the Colonics, they found that they had to extend their office and works to meet the requirements of the tride. They opened then Heid Office it their present address 6, Commercial Buildings Calcutti having abrun h office at 50, lindal Griden Road Howish, and trusferring the r works to bigger grounds it No 17 3 Howish Road Howish,

on the buils of the Hooghly In the same you they took to importing and exporting goods between India and Lurope and the Colonies, and are now also doing a large business in Indeats. Their imports are chiefly ashestos goods slig wool lubricating oils grease felts ropes, etc, luge stocks of which are held in their godowns in Cilcutti and Howith Their exports are cheffy mica, crude sheets flaked, poyders and compositions. They are Maniging Agents for the Pioneer Mining to who have mines of men griplite and manganese scattered n varous parts of India the produce of which finds is wis to England and Germany They are also Managing Agents for the Lixel sior Mining Co., Patan, Rapputana They are actually the owners of this concern, but owing to the Rija of the place objecting to grant a lease to work mines in his country, to an European firm, Messrs Teamox & Co were compelled to obtain the sime through a native, and have styled themselves Managing Agents only although they are virtually the proprietors. Mr Harwood the



Messis W LENNON & Co's Office Room

the position of Executive Engineer of Wards Tributary Mahals in Orissa, under Government management, and District Engineer,



Ku Sahib B C MAJEMBAR

Angul The title of Rai Sahib was conferred upon him by the Government of India in 1896 in recognition of his valuable services in opening out the Garjat States He retired from the service in 1903 and settled at Khulna where he has taken considerable interest in the engineering works in the district He is Honorary Vice-President of the Local Board, and is connected with several other public bodies Since his retirement he has embarked in private business and is the proprietor of a soorkey mill, etc at Khulna where he carries on his profession as an engineer and contractor under Government and the Eastern Bengal State Railway

Babu SINGHO DASS MAILIK Builder, Surveyor, Architect and Valuer, Calcutta, is a member of the old and distinguished Mallik family of Calcutta held in great esteem for their piety and benevolence Babu Singho Dass is the great-grandson of the late Babu Nemye Churun Mallik He is now the head of the elder branch of the family, and is connected with many of the wealthy families of his native city. He received his early education in the Government Nor-

mil School, and later on at Joiasanko He then entered the Hindu College, where he completed his studies in English After leaving school, he first turned his attention to literature, and he edited two Bengali monthly magazines, called "Bidyashahini" and "Ganoprodayını '' In 1873 he started his present business as a Civil Engineer, Surveyor, Builder and Contractor under the name of S D Mallik & Co, and his son Babu P C Mallik is now a partner in the firm He is one of the proprietors of the dispensary until iecently known as the "Wales Medical Hall," but now conducted under the style of Graduate & Co



babu S D MALLIK

In Freemasonry, Babu S D Mallik has displayed considerable interest, he is an old Past Master, and has taken many degrees in the Craft For the past twenty years he has been a builder and contractor to the Administrator of Bengal, and has also worked under Mr W G Cotton WINSTCE, who entertained a high opinion as to his capabilities in his line of business Among the buildings he has erected may be mentioned the old Incinerator in Lower Cırcular Road, Calcutta, which stood near the eastern end of Dhurrumtollah Street On this he worked under the direction of the late Mr Harrington, CE, from whose design the building was constructed

Messis S MANASSEH & SONS, Merchants and Commission Agents, Calcutta This firm was started in the early sixties, by the late Mr



MI S MANASSEH

S Minasseh, with a branch it Sin gapore, under the name and style of S Manasseh & Co munged by his partner, Mr Saul J Nathan After a very successful business career, Mr S Manasseh died in 1894, and the business in Calcutta was taken over by his sons, under the name and style of S Manasseh & Sons, and conducted by his eldest son, Mr Maurice S Manasseh The firm is largely interested in the opium, gunnes, rice, and oil trade with the Straits Settlements, Burma, and China

Messrs H D MANNA & Co, Chemists, Druggists, Perfumers, Rubber Stamp makers (known as "The Royal Rubbei Stamp Works") and manufacturers of Indian Condiments Head Office —3 I to 4, Gulu Ostagur's Lane, Calcutta General Office and Show Room —356, Uppei Chitpore Road, Calcutta Condiments Factory —26 Gulu Ostagur's Lane, Calcutta Proprietor, H D Manna, General Manager, B Manna assisted by J N Manna, D N Manna and others

This firm deals exclusively in chut nevs, jams, jellies preserves, syrups, pickles, curry powders, sauces, etc., analysis has been proved to closely resemble the water supply of the famous breweises at Burton on Irent Messis Mackinnon & Co do a very large business, supplying beer throughout India Owing to the very large demand upon then produce, the firm of Mackinnon & Co opened another large brewery situated at Jubbulpore, C P, in the year 1895, which is furnished m the same up to date style as their Mussoorie establishment. This brewery is supplied with water from the town supply and also from wells in the neighbourhood Here the firm produces some 4,000 hogsheads of beer per unnum. All the hops used in the biewing of beer at both the bieweises owned by the firm, are imported from England, being the produce of the county of Kent The bailey is produced locally and malted in a fine German malt kiln at Mussoo rie, specially erected for the pur pose by the firm The firm have very large contracts for the supply of beer to the troops in various can tonments They also do an extensive trade in bottled ale, which is specially brewed for the purpose



Mr P W MACKINSON

They have excellent facilities for shipping their produce in this form Mi Philip Walter Mackinnon of the firm of Mackinnon & Co Brewers of Mussoone and Jubbulpore, was born at Dehra near Mussoorie

in the year 1849, and educated by his father, who, previous to taking to business, had been a schoolmaster From an early age he assisted his father in the business of the brewery After succeeding to the property he visited England in the year 1871 for the purpose of studying the processes of biewing at Burton on Irent Here he obtained a thorough knowl edge of the English system of brewing ales Mr P W Mackinnon has, throughout his career, taken a keen interest in the public affairs of Mussoorie, taking an active part in all that tended to the improvement of the town and district. He has been a member of the Board of Municipal Commissioners for over 20 years and is now senior Vice Chairman of that body

Mi Vincent Aithur Mackinnon, also of the firm of Mackinnon & Co, Brewers of Mussoorie, was born near the old place at Mussoorie in the year 1852 He also was educated under his father He gained a thoroughly practical knowledge of brewing at the Old Biewery, and is a very competent brewer. He has visited England several times in the interests of brewing and the business generally Mr V A Mackinnon is a long standing member of the Municipal Board of Mus soorie, and has been Vice Chairman for severil terms. The brothers Mackinnon are active and enter prising business men, and their public spirited energy has done much to improve Mussoorie and its surroundings

The Happy Valley which is one of the beauty spots of Mussoorie, is the property of Mr V A Mackinnon He pur chased it in the year 1903, and done a great deal towurds improvement since tate comprises about seven acres of ground, laid out in Racquet Courts, Canadian Tennis Courts, and Lawn Tennis Courts There is a fine Pavilion and Billiard Room The well known Happy Valley Club is located on these premises There are various other handsome buildings on the estate

The brothers Mackinnon are Di rectors of the Mussoone Polo Ground and Race Course Syndicate They are extensive property owners, and have considerable interest in ter property, forests and timber

The Bhilara Estate, which contains about 550 acres, including some charming building sites is their property, also the Park Estate of 500 acres heavily timbered, also Snowdon, 220 acres of splendid



Mr I I Mickinson

forest The brothers Mackinnon have an up to date Forestry Department, and huge quantities of timber have been cut from their estates since 1850, which has been more than replaced by new plantings
Mi P W Mackinnon resides at
Lynndale, and Mr V A Mackin

non at Kandi Lodge

Rai Sahib BANKIM CHAN-DRA MAJUMDIR, District Engineer Angul, Public Works Department and Executive Engineer Tributary States, Orissa (retired), was born at Maheswarpasha, in the District of Khulna, in 1864 He comes from a highly respectable Kayastha family, descended from Birat Guha, one of the five Kayas thas who came from Kanauj and settled in Bengal during the reign of Adisur, King of Bengal Bankim Chandra received his early education at the Jenkins School, Cooch Behar and later, entered the Civil Engineering College, Sibpur On joining the Public Works Depart ment, his first appointment was as an Overseer in the District of Hooghly He proved a valuable servant to Government, and rose to

a Member of the Committee During his last visit to Paris he became a Member of the "Societe International Des Electriciens". He was also admitted as a Member to the Institution of Electrical Engineers London in the veri 1906.

Messrs MARTIN COHEN & Company Merchants and Agents 9 Marine Street Fort Bombay Established in the ven 1883 by Mr Martin Cohen Sole Proprietor



Mr. MARTIN COHEN

This firm principally deals with ontractors, and supplies different materials, including canvis, tents, etc., used particularly by the Commissariat Department and the Arsenal. The firm has several correspondents in England, and agencies throughout India

Mr Martin Cohen is Sole Pro prictor of the firm, and was born in Hamburg, Germany, in the year 1843 After completing his educa tion he joined Messrs Heynemann & Company in 1864 in San Francisco, and subsequently became a partner in the firm In the year 1880 he re turned to Manchester and joined his brother, and in 1883 came to Bombay, starting his own busi Agents ness as Manufacturers' and Merchants, under the name and style of Maitin Cohen & Co Mr. Martin Cohen has also been the Com mercial Agent for the Brazilian Government in Bombay since 1905

TRIDERICK EDWIRD GEORGE WATHEWS House Agent, Merchant and Importer of Hardware, Auctioneer, Builder and Contractor Jaini Tal Mr Mathews started his present large and substantial business in 1872, and has worled it up to its present position under his own undivided proprietorship His business comprises everything connected with house building and fitting He is responsible for the erection of about forty large houses in Vaini Tal and many public buildings in that station are also his work including the Ramnee Convent St Joseph's College, The Girls' High School, Murray's Exchange The Orderly Room, Volunteer Recreation Room and Waverley Hotel Mr Wathews holds monthly auction sales regularly throughout the serson and is himself a large house proprictor in the station. He was born in India, at Muttra, in the year 1838, and educated privately For eight years he served in Covernment employ in the Subordinate Medical Service, and part of his ser vice was during the great Indian Mutiny in 1857-8 He was in the Fort at Agra during that time, and was awarded the Indian Mutiny Medal In 1862 he retired from Government employment and joined the Kumaon Ironworks as clerk of works In 1872, after those ironworks were closed, he started for himself as a l ouse agent at Nami Tal and devoted himself to Luilding up a general, commercial and auctioneering busi ness, in which he has been eminently successful His public services have included membership of the Municipal Board and an Honorary Magistracy at Nami Tal and membership of the Ramnee Hospital Board He has been an ardent volunteer, and an officer for 20 years

Mr JOHN McGLASHEN, Fcs, Superintendent, Cawinpore Sugai Works Comp iny, Limited, Cawinpore, was educated at the Glasgow Acad emy School, and at Bath England Mr McGlashen received his technical truining as a chemist with Messrs Wallace, Tatlock, and Clarke, Glasgow City Analysts, and also at the Glasgow Technical College He was Chief Assistant to Mi Clark, Glasgow City Analyst, for two years, and subsequently entered the service of Messrs John Walkei & Co, sugar re-

finers in Greenock, as head chemist In the year 1895, he came out to India for Messrs Duncan Stewart & Co, and superintended the crection of the Cawingore Sugar Works. He has remained in charge of the works as Superintendent ever since

ALEXANDER MCKENZIE & SONS Timber Merchants Saw millers Contractors and Cabinet makers was tounded in the year 1881 by the late propuetor Mr Alexander McKenzie a well known citizen of Bombay whose death took place in September 1906 Highly esteemed by all who knew him, Mr McKenzie was a man of exception il ability and occupied no small position in Bombay Municipal and busmess affans He was a Justice of the Peace a Member of the Muni cipal Corporation, and acted as Chair man or Director in numerous import ant companies in the city

Mr McKenzie began his crieer in India as Manager of the Bombay Saw milling Company, in which capacity he gained twenty years of valuable experience His early train ing in Scotland was acquired in a well known Glasgow firm of cabinet makers, with whom he might have remained, had he not been tempted like so many others of his countrymen to seek his fortune in a foreign land From a modest beginning the firm of Alexander McKenzie & Sons grew apace, and on so sound a basis that to day we may congratulate the owners in having not only the largest business of this kind in Bombay but the largest throughout the whole of India The excellence of the work, the skill and promptitude with which orders and contracts are executed. have gained for this firm the enviable reputation which it bears to day

The Saw Mills at Mazagon are fit ted up with modern wood working machines, which enable the firm to manufacture all kinds of cabinet and joinery work in a style much superior to what is generally turned out in India

Orders executed in teak have been repeatedly exported to Europe, the workmanship of which has always given the greatest satisfaction

There are few important buildings in the city of Bombay to day that do not testify to the beauty and excellence of the wood-work carried out by this firm

of their own manufacture, for which they have obtained a high reputation. Besides supplying their specialities throughout India, they export largely to Europe Australia, Japan, China, America and other contres, where their goods are highly appreciated. They have received a prize medal and diploma of honour at the World's Fair Paris Exposition of 1900 a gold medal at the Calcutta Industrial Exhibition 1900, a gold medal at the Cape Town Industrial Exhibition of 1904 5 a gold medal at the Indian Industrial and Agricultural Exhibition. Benares, and a gold medal at the Indian Agricultural Exhibition, Calcutta,



Mr H D MANA

1906 7 The film started the manufacture of perfumes about five years ago and they full out a large quantity in ddition to their other manufactures. The business was established in 1880 by Mr. H. D. Manna. M. R. A. S. F. R. S. L. (Lond.), who is a native of Calcutta, and received his education in Bengal. He started the business in quite a small way, but by the excellence of his methods of manufacture has so increased it, that it now gives employment to about 70 hands. Mr. B. Manna, who is now the general manager of the concert, is the son of Mi. H. D. Manna, and was born at Calcutta. He studied

at the University College Calcutti, and also at the College of Physicians and Surgeons of Bengal He joined



Vr. B. MANNA

his father in the business in 1900, and under his control it has considerably increased

Messis MARSHALL & Co. Lugineers and Merchants Office, Esplande Road, Bomb v Sole Prophetor, Mr N M Murshill, AMIET, MSOCIL The firm were established in the year 1893 and deals principally in mill furnishing machinery and stores. In addition, the firm act as Engineers for their various constituents. Dur ing the last four years they have opened a department for Electrical Engineering and have been very successful therein Mr Marshall has opened a motor show room and griage near the Wellington Mews, Woodhouse Budge Road, called the Indian Automobile Company He engages several British mechanical engineers and personally devotes much time to this work. The mill stores and godowns are at Parel, Bombay, and the Electrical Engineering show rooms are in the Fort, Bombay Mi Nusservanjee Maneckjee Marshall, AMIEL, M SOC I E, Sole Proprietor of Messrs Marshall & Co, Engineers and Merchants, Bombay, was born in the year 1869 at Broach, near

Bomb is the belongs to a distinguished family in the district. He was educated at Broach Government High School. He migrated to Bomb is in 1886, and joined the Victoria Jubile. Technical Institute in the first batch and passed successfully through the engineering and the textile courses. Subsequently he joined Messis. L. D. Sasson & Co. as an apparentice. This Company is one of the largest and richest firms in Bomb is. Le soon became Assist int Mill Minager, and supervised the machinery exection, and fittings of the Jacob Sasson Mills one of the Digest mills in the world. Market serving for about two years and chalf he



Mr N M MARSHALL

severed his connection with this Company, and in 1893 he started business on his own account To give a finishing touch to his experience, and for the benefit of his business, he several times visited Europe During his last visit in the veni 1906 he took a keen interest in the motor car industry, and attended various trials organized by the Automobile Club of Great Britain and Iteland Subsequently he be came a Member of the Club, being the only Indian Member elected Mr Maishall also took great interest in the different Motor Tirils organized by the "Motor Union of Western India," of which he is The Hon'ble Mr ALENANDER McROBERT (Lieut Colonel, Caun pore Volunteer Rifles) President, Upper India Chamber of Commerce, was born at Aberdeen in 1854 and educated there, and at the Royal College of Science, London

His first business experience was gained with the firm of Messrs Mexinder Pirie & Sons, Paper makers. He was subsequently Neil Arnott Lecturer in Experimental Physics in the Mechinics' Institute, Aberdeen, and Lecturer in Chemistry at Gordon College in the same city. In the year 1884, he came out to India in order to take up the management of the Campore Woollen, Mills and has remained



Mr MFN MCROBERT

in the country ever since These mills have been much enlarged business increased a n d then under his able management McRobert has served for four terms as Member of the Lieutenant Governor's Council, representing commercial interests. He is a member of the Managing Com mittee of the Thomason Engineer ing College, Rurki, and a Fellow of the University of Allahabad He is one of the founders of the Upper India Chamber of Commerce and has been Vice President or President of that influential almost continuously since He is Colonel it was started

Commanding the Caunpoie Volunteer Rifles The Hon'ble Mi Mc Robert's contributions to commer cial and other public affairs have been numerous and valuable. He is a well known furtherity on economic questions.

Messis H M MEHTA & Co, Ld, Merchants and Machinery Agents Established in the year 1897 Offices, 3943, Forbes Street, Fort, Bombay This firm deals in all kinds of machinery especially cottonmill machinery, and the stores required for such mills, having its branches in Manchester, Glasgow, and Ahmedabad, with agencies all over Europe and India The present paid up Capital is Rs 1,00,000 and the Reserve Fund exceeds Rs 2,00,000 Mr Mehta, the founder started with a very limited capital of Rs 15,000, which was the first call of the then nominal capital of Rs 50,000 But this small capital was so very intelli-gently handled that the concern was never short of funds, and after declaring 25 per cent as the smallest dividend, it has been able to buy up the Victoria Mills situated at Gamdevi Road, Bombay, employing over 800 hands and having 31,000 spindles This purchase was made in conjunction with Mr M G Priekh of Ahmedabad, who is also a partner in the firm of Messrs H M Mehta & Co, Limited, and the cost, £16,000, was paid out of searnings. The Mill was so ably managed that the first year's earnings made up its full purchase value The firm are also Chief Agents for the London and Lancashire Fire Insur ance Company

Mr Homi M Mehta is the senior partner He was born in 1871 in Bombay and was educated in the Elphinstone and Fort High Schools After passing the first University Matriculation Examination he ioined the Bombay Mint in the year 1890 as an Assistant After a year he joined the China Mills, Limited, as an Assistant Accountant on a small pay of Rs 50 per month Here he utilized every opportunity in getting a thorough knowledge and experience of Mill work In the year 1894 he joined the firm of Messrs D R Umrigar & Co, who are mill store suppliers, as their head salesman He severed his

connection with this firm in the year 1896 and started his own Company under the name and style of Messrs H M Mehta & Co, Ld Mr Mehta exercised all his energy in bringing success to the Company, and the wonderfully satisfactory result is mainly due to him. He visited Europe three times to give a finish ing touch to his experience in the Mill and Cotton line, and to dev elop the business of the Company He is Chairman of the Mill Stores Trading Company, Limited, B P Varielwalla Co, Ld, and the Victoria Cotton Mills In addition to this he is a direct representative of eleven firms in England as follows -large mill engines, by



Mr H M MEHT

George Sevon, Lancashire and Cornish Boilers, by John Marshall & Co, mill gearing, complete, by P R Jackson & Co, Ld, looms and weaving machinery, by Hacking & Co, Ld, calenders and finishing complete plants, by Benfey & Jackson, Ld, electric complete installations, by P R Jackson & Co, Ld, leather beltings (Kawil Patent), by Kay and Wilkinson, Ld, bobbins (Lockfast and Climax Patent), by Wilson & Co, Ld, Barnsley, spinning lings to fit any ring frames, by Eadie Bros & Co, card clothing of every description, by J Lister & Sons, roller cloths, flannels, etc, etc, by S Porritt & Sons, Ld

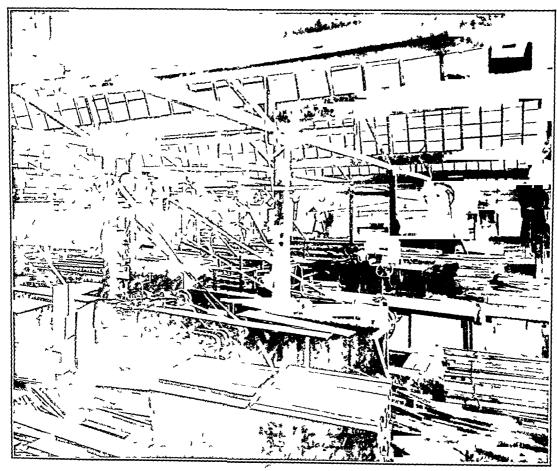
The works are installed with electric light for night work, as this firm has been frequently called upon to execute orders in cases of extreme urgency An interesting instance of this occur red in 1899, when they were called upon by the Government to fit out transports to convey troops and horses from Bombay to Durban and it was in nosmall measure due to the energy and zeal of Messrs Alexander McKenzie & Sons that sufficient ships were ready to pour in the men and horses so necessary to stem the on slaught of the Boers in the early stages of the South African wir

The late Mr Alcyander McKenzh has been succeeded by three of his sons now all partners in the firm. The senior partner, Mr George McKenzh having completed his training in England, came to Bombry to join the firm, and has been associated with his tather in the business for a period of over 17 years. He is thoroughly con



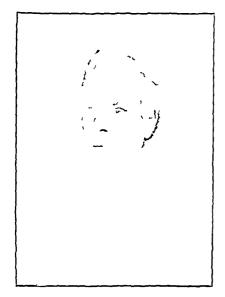
Mr. G. McKENZII

versant with every branch of the work and has done much to extend the business. He is a Member of the Institute of Architects, a J. P. for the Town and Island of Bombas and a Director of several mere intile componies. He is ably supported by his jumor part ners Messrs A. L. and K. L. McKenzie Mr. A. I. McKenzie received his early education and training at Coopers Hill College England He spent two veirs with in Ingmeering firm in Glasgow and five veirs in Burma where he had ample opportunites of study ing the growth development, and conversion of teal, which is the principal t mber used by the firm. Mr. Kenneth I McKenzie AMINSTEE was also educated if the Coopers Hill College, he's in Assoc ate Member of the Inc t tution of Civil Ergineers England He finished his truining with a well known Glasgow Architect, and takes charge of all the constructional and building work carried out by the firm



INTERIOR VIEW-BYCULLY SAW MILLS

Babu NIL MONEY MITTER cr, was born at Baida, near Diamond Harbour in Bengal, in the year 1828 He was the son of very respectable parents, belonging to a reputable Kayastha family Litigation had wasted the family possessions, and Babu Xil Money had to rely on his own exertions for his advancement. His first studies were carried on at the village school where he showed a remarkable aptitude for mathematics which laid the foundation of his future distinguished career as an engineer In 1840, he joined the L M S Institution at Bhowampui for the purpose of continuing his studies and later he entered the Tree Church



The life BABU NIL MONEY MITTER

Institution, where he carried off the highest prizes and scholarships He attracted the attention of the professors of the Institution and was a favourite with all, including the well-known Dr Duff, by whose influence with Sir Henry Lawrence, Babu Nil Money Mitter was enabled to enter the Thomason Civil Engineering College at Rurki, in 1851 He was the first student from Bengal to be admitted into that Institution, hitherto intended for the exclusive benefit of students of European descent Here, he obtained the highest prizes and stood first in the examination of 1852 In the following year he passed the Com-

mittee examination with credit and was awaided a special prize of pio fessional books. An appointment as Sub Assistant Civil Engineer at Calcutta followed, and within a few years he rose to the rank of Executive Engineer In 1859, he resigned the service and commenced a professional career on his own account, having in view the devel opment of the learned branch of the engineering profession as a line of work for inscountrymen Indeed, in this, as in many other matters he was a pioneer among the natives of India He became one of the foremost exponents of Indian archi tecture on modern lines, and his labours resulted in beautiful edifices such as the palace of Maharaja Sir Joundry Mohun Bahadur Tagore, the residences of Babu Kali Kisen Tagore, Rai Nundo Lal Bose and Rai Pasupati Nath Bose, and Babu Kirti Chunder Mitter, the Science Association, the Metropoli tan Institution and many other buildings Sir Alfred Croft, as Vice Chancellor of the Calcutta University, bestowed a graceful eulogium upon him at the Convocation Meeting of 1895 After alluding to h s bulliant career at Ruski and in the public service, he said -" He was a man of vigorous and indepen dent spirit and after a few years he quitted the scrvice of Govern ment to set up in business for himself In a short time he rose to a high position among the architects of the metropolis To the residents of Calcutta it may be said-Si monumentum quæris, circumspice The mansions of many of the wealthy inhabitants of Calcutta, and other important buildings of a public character, bear witness to the origin ality and success of his ideas' The public life of Babu Nil Money Mitter was many sided He was a Municipal Commissioner of Calcutta, Vice Chairman of the Cossipur and Chitpur Municipality, and Chairman of the South Dum Dum Municipality, an Honorary Magistrate of the 24 Parganas and Dum Dum, a Fellow of the Calcutta University, and a member of the Indian Association for the Cultivation of Science In memory of his mother he established and maintain ed a school in his native village of Barda He also established a school at Shambazar which he named after

his great friend, Pandit Iswar Chunder Vidyasagai He was foremost in developing the resources of Madhupur, in the Santhal Parganas, as a health resort He was highly popular and his sterling qualities of head and heart, and his integrity, charity and manliness, won the respect of all sections of the community He had the distinction of being the pioneer Indian engineer on modern lines His death occurred on the 24th August 1894

Mr J N MOOKERJEE, son of Mr T C Mookerjee, was born in 1869 at a village near Baraset in the 24 Parganas, and he was educated in his native village school up

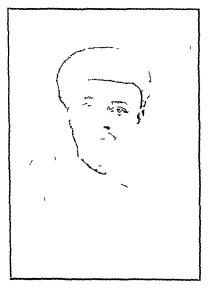


Mi J N Mookerjee

to the age of 10 years He was then taken to Calcutta and placed in the Sanskrit College At the early age of eighteen he was sent to various places in Bengal and North Western Provinces with a well known contracting firm, under whose guidance he care fully studied for several years the system of water works obtaining there, and obtained a thorough insight into the complicated though useful art of the filtration, preservation and supply of drinking water for towns

In 1894 he established the well-known Engineering and Contracting firm of Messrs Sanyal, Mookerjee

Mr MANGALDASS GIRDHAR DASS PAREKH was born Ahmedabad in the year 1861 and was educated in one of the local schools of that city His father, who had very limited means, was a good accountant He took great pains in giving his son a sound edu cation and bringing him up as a thorough accountant After finishing his school career, Mr Parekh joined one of the local mills in Ahmedabad under the management of Mr Munsukhbhoy Bhagoobhai, as a store keeper on a small salary It did not take him long to master the Store Department By his keen foresight, he observed that, as the Mill industry was then in its



Mr M G PAREKH

infancy in Ahmedabad, a good margin was obtainable on the stores sold to the mills, and therefore he left his appointment, and made a start in trading in Mill Stores on his own account He soon made money enough to venture in the trade of vain, wherein he had extraordinarily good success owing to his sound judgment, forethought and business reume. With his gains he formed the plan of building a mill, and with the help of his friends, whose con fidence in his business capacity was duly improving, he was enabled to get capitalists to take up the shares, and he eventually formed the Arrodava Spinning and Weaving Co. Ld, with a capital of Rs 5,00,000

He prospered in this attempt, which resulted in the extension of the mill In 1897 he became a partner with Mr H M Mehta, of Bombay, and helped him in starting the Mills Stores Tracing Company of India, Limited That was a lucky hit, and since then both the partners have fared exceedingly well in their various attempts. In the year 1901 he accepted the agency of the Rajnagai Spinning & Weaving Co, Ld, which was then in a very deplorable financial position original value of 1,000 rupees for each share had fallen as low as Rs 50 only Mr Mangaldass with his usual tact and ability pulled this concern out of the mire, and the value of each share has risen from the low sum of Rs 50 to Rs 1,400 In 1904 he bought the Victoria Mills in Bombay with Mr Mehta, which also proved a very successful bargain In fact, Mr Mangaldass is a self-made man, and by dint of his industry and foresight has amassed a large for tune within the last 15 years, and his yearly income at present is not far short of £40,000 He is a wonderful organizer, and the Ahmedabad trade recognizes him as such, and if spared, he will soon prove to be a "Tata" of Ahmedabad He is the Secretary of the Mill Owners' Association of Ahmedabad Mi Mangaldas is well known for his charities His puise was kept freely open during the last famine, when he distributed baked bread, grain, etc., very freely to the deserving, and paid large sums towards preserving cattle in the districts. He also spends thousands of rupees in private chair ties and in the cause of education

Messrs MEISTER LUCIUS & BRUNING, Ld, have their offices at 32, Hornby Road, Bombay The firm has been established in Bombay since the year 1903 and deals princi pally in the aniline and alizarine dyes, artificial indigo, and phaimaceutical products manufactured by Messrs Farbwerke, vorm Meister Lucius & Bruning of Hoechst-on Main, one of the leading firms of the chemical industry of Germany Formerly their business was carried on in India by agents, and from the year 1800 to 1903 Mr J C R Nabert acted as such However, it was thought expedient to form a Joint Stock Company in Bombay for the further development of business in India, and accordingly in the year 1903 the present Limited Company was formed under the able Managing Directorship of Mr Nabert The dyes handled by this Company we used in dyeing cotton, wool, halfwool, silk, jute, leather, paper, straw, feithers etc., and they can also be used in the preparation of inks, soaps, colouring essences, and several other such purposes

Mr JOHANN CARL REIN FRIED NABERT, the Managing Director of the Company, was born in Germany in the year 1860, and passed through a first class Grammar School, and a Commercial Academy At the age of 17 he left his native



Mr J C R NABERT

country and res ded and travelled for 25 years in many different countries in various parts of the world, during which period he gained very valuable information and commercial knowl edge He was acting as a manager for several firms in the Dutch East Indies, Holland, and Germany, and his ex perience in various kinds of import and export trade is wide and valuable In 1800 he entered the service of Messrs Farbweike, voim Meister Lucius & Bruning of Hoechst on-Main, Germany, who in the same year delegated him as their Agent to Bom bay where he is now carrying on the large business of his firm, Messrs Meister Lucius & Bruning, I d., very successfully

attained the position of Deputy Examiner He joined the firm of Messrs K N Mookerjee & Co,



Ru Sabib b C CHATTERJI in 1904, shortly after his retirement from Government service

Mi STEWART BULLEN MOUL TRIE, Agent, Bank of Bengal, Delhi, was born at Bombav in 1872 He is the son of the late G W Moultrie Agent at Bombay for the Bank of Bengal

who joined the Bank in 1852 n n d retired on pension ın 1881 MrS B Moul frie 11 25 educated at Rugby School, Eng-Hc land entered business life in the Man chester and Salford Bank, Lim ited a t Rochdale Lancashire, in the year 1891 In 1893 he en tered the service of

the National Bank of India, Ld, in London, and in 1896 proceeded to Calcutta to join the Bank of Bengal. He has been connected with this institution ever since, and has acted as its Agent at various branches. He became Acting Agent at Delhi in Maich 1907.

Mr R L MORGAN, of the firm of Messrs Landale and Morgan, Jute Brokers first arrived in India in the year 1880 to join his present

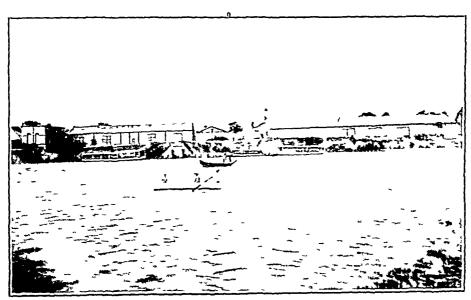


Mr R I Moreis

firm, and on the retirement of Mr D Morgan in 1890 became the senior partner. The firm is one of the oldest jute brokers' establishments in Calcutta and in addition to a large business in baled jute for export it has agencies all over the jute growing districts for the supply of raw material to the local jute mills and balers.

Messrs \\H\PIEI & (() | Inte Merchants and Balers Postgellih Dacca. This business was estimated in the year 1890 by wests Thad S Nahapiet and M tham I ucas, and was carried on by them in equal joint shares for the list year, when Mr Nahapiet purchased his partners in his and become the sole proprietor. For several years the business was carried on as a cutcha baling affin, but owing to the energy and business capicity of the propretor, and his personal friend and Calcutta agent Mr Thaddeus Mesrope Thaddeus, one of the leading jute brokers of Calcutta, it increased to such an extent that Mr. Nahapiet was able to arrange for the purchase of a complete set of pucci pressing plant and machinery in 1905, and since that time the firm have been packing pueca baled jute under the well known mark PA This development has been attended with great success, in conjunction with the original cutcha baling busi-

กยรร impetus thus afforded to an al ready successful busi ness has caused it to assume large dimensions, -) large, that the premises have been extended, net block of Lodo n bult, and a complete exira pre -1 L plant has been added to the existing much: ers He \ ha, ie. 1 -1 (I



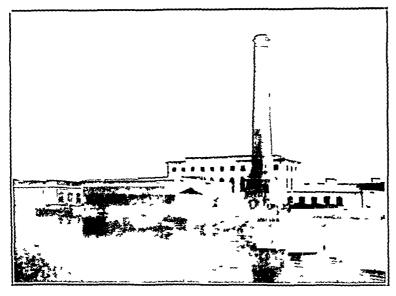
Messes T S NAMED & Co S JULY L'ETORS

& Co at Benares and at present he is a partner of Messrs T C Mookerjee & Co Water Works and Building Contractors to the Calcutta Municipality, and Proprietor of the extensive brickfields at Kotrung on the Hooghly He is also a Director of the United Bengal and Assam Pharmaceutical and Chemical Co Ld

Mr J N Mookerjee comes of a noble family, and is a gentleman of quiet, amiable and accomplished manners. He is well known for his charitable gifts to the poor and needy

Messrs KRISTO NATH MOOK-PRIEE & Co Builders and ConJute Factory at Barnagore The firm undertake all descriptions of building work. Since the establishment of the firm a separate department has been inaugurated for execution of orders for supplies of all descriptions. The sole proprietor of the firm is Babu Kristo Nath Morkerjee.

Bibu KRISTO NATH MOOK-ERJEE, sole propiletor of the film of Kristo Nath Mookerjee & Co, was born at Bhadracaly in 1847 and educated at Utterparah and Barrackpole Government Schools On leaving school he toined Government service, and spent several years in official appointments and in the



BARNICORE ILTI MILL BALLY Erected by Babu K N MOOKERJEE

tractors, 7 Swallow Lane Calcutta Established 1902 This firm have carned a high reputation for the general excellence of the r work particularly in the erection of mill building- and other large work Within the five years of their exis tence the firm of K \ Mookerjee & Co have built four large mills The South Alliance Jute Mills at Ingatdal, the Kinnison Jute Wills at Littigarh, the Nathatty Jute Mills at Hajinagore, and the Barnagore Jute l'ictory (new mills) at Bally They have also completed the construction of the extension of the North Illiance Jute Mills at Jagatdal and the South Barnagore

service of the East Indian Railway Company His inclination did not, however, tend in the direction of clerical service, and he joined the building trade in Calcutta in 1881, when he was employed by Messrs K L Mookerjee & Co as overseer of works In this capacity he personally superintended the construction of nine filter beds at the Pulta Water Works He was also employed as overseer in the con struction of the Jubilee Bridge at Hooghly, which was entrusted to Messrs K L Mookerjee & Co the service of the same firm he also supervised the construction of many bridges and overbridges on the

Eastern Bengal State Railway After the death of Babu K L Mookerjee and the consequent separation of the firm of S C Mookerjee & Co,



Babu Kristo Nath Mookerjer

Babu K N Mookerjee carried out much work under the latter firm, but in 1902 he severed his connection, and started business on his own account Babu Kristo Nath Mookerjee was personally known to the famous engineer, Sr Bradford Leshe, who gave him the following testimonial, dated 1887 — "Babu Kristo Nath Mookerjee has been known to me since the year 1881, having had charge of many petty repairs and additions I have had made to the Beehive at Tittaghur, and I have great pleasure in certifying that he is a very civil, intelligent, and industrious man, and well acquainted with all descriptions of building operations"

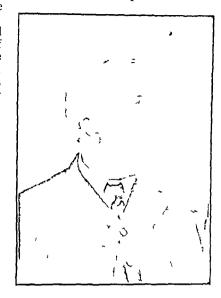
Rai Sahib B C CHATTERJI, the present manager of the firm of Messrs K N Mookerjee & Co, was born at Barrackpore in 1856, and is an under-graduate of the Calcutta University. He joined the Military Accounts Department in 1878, in which Department he obtained promotion to the gazetted ranks. In 1894 his good services were recognized by Government with the title of Rai Sahib, and when he left Government service he had

Cotton Manufacturing Co, Ld (Broach), the Surat City Press Co, Ld (Surat) Ginning and Pressing Co, Ld, the Broach City Press Co, Ld (Broach and Agra), (ginning and pressing), the Mahuva City Press Cd, Id (Mahuva), (ginning and plessing), the Amieli Pless, Factory, the Junagadh Press Factory, and the Sarasvati Mills, Bombay The mills were originally owned by the National Spinning and Weaving Co of Bombay, which went nto liquidation in 1895 Messrs Narandas Rajaram & Co purchased the mills from the liquidators in that year and formed a Limited Company for the purpose of working them The mills had passed through many hands before coming into the posses sion of the piesent Company, and were originally built when the Bombay mill industry was in its At the time of their acinfancy quisition by the Company, there were only 15,200 spindles in run ning, but in 1896 the Company added 5,000 spindles and preparation costing Rs 3,00,000, with a view to reducing the cost of production For the first few years, owing to bad times consequent on famine and plague, the Sarasvati Mills, in common with the mill industry of Bombay, had a very severe ordeal to pass through The energy of the Managing Agents kept the concern going through the period of depression With the management With the improved of depression times of the last few years, however, the Company's affairs have taken a prosperous turn The cap tal debt is

now nearly discharged, and the mill and machinery have been got into thoroughly efficient condition There are about 800 hands in the employ ment of the Company The Mofussil Cotton Manufacturing Co, Ld, of Broach, another concern in the Agency of Messrs Natandas Rajaram & Co, owns one of the first mills built in India, by Mr London After passing through many vicissitudes, and changing hands frequently, it was acquired by Messrs Naiardas Rajarum & Co, who converted it into a limited liability company in 1895, with a capital of Rs 6,00,000 Since that per od it has steadily advanced in prosperity, and nearly all the old machinery has been replaced by new and upto date machines. For the last ten years the concern has regularly paid fair profit on capital. The whole of its output finds a market in the country There are about 600 men in the employ of this Company

Messrs W H NEBEL & Co, Custom House Road, Bombay, Merchants, established in the year 1875 Head Office, Leipzig (Germany) Branches, Lyons (France), Bombay, Delhi, Cawnpore, Amritsar Agen cies throughout India, China, Austra lia and Africa Sole Proprietor, Mr W F Nebel The firm principally imports piece goods and all kinds of general merchandise, and now com mands an extensive business Mr John Glaeser, Manager of the firm in Bombay, came to India in the year 1896 to take charge of the Bombay

Office as Manager, and he still con tinues in the same position



Mt J GLAESER

HILLS ARTHUR GLEADOWE-NEWCOMEN, CIF, VD, ADC, FRGS, FSA (Lieut-Col, U P Light Horse), Campore, was born on the 9th November 1855, in Iteland, and educated at Ripon and Durham School Mr Newcomen came out to India in 1873, and joined Messrs Begg, Sutherland & Co, as an assistant He left the firm and engaged in the opium, indigo and tea industries, but in 1882 he left these pursuits to accept a position under Government in the Public Works Department this service he retired in 1882, to join the firm of Messrs Cooper. Allen & Co, Cawnpore, in which he rose to a partnership, which he still retains At the time of his retirement from the Public Works Department he was Assistant Director General of Railways at Simla Mr Newcomen did good work as President of the late Com mercial Mission to Persia and was rewarded for his services with the Companionship of the Order of the Indian Empire, and the thanks of H B M's Government, conthrough the Governorveyed General in Council He 15 a volunteer of high standing, being Lieutenant Colonel Commanding the United Provinces Light Horse, and is an Aide de Camp to the V ceroy



MOFUSSIL COTTON MANUFACTURING CO, LD

jute business, with cutcha baling plant, in Narainganj, which is carried on in conjunction with his Dacca business. These premises are known as the Goodnail premises and were originally acquired, by purchase, from Mi A Lucas in 1900. In the management of his ventures. We Nahapiet has been ably assisted by his manager, Mr H M Shircore, who still works under him in the same capacity.

Mr THADDEUS SETH NAHAPIET, Sole Proprietor of Nahapiet & Co, was born at Julpha, Ispahan Persia, in 1866 and came to India as a boy in the early eighties He was educated at the Cilcutta



Mr T S NAHAPIET

Boys' School and the Doveton College On leaving school he obtained an appointment in a shellac manufacturing concern This busi ness did not suit him, and after three years he joined the jute trade as an assistant to the well known pioneer in jute, the late Mr Abra ham Lucas, who, with Mr Marcar David, was one of the first men in the jute field He served Mr Lucas at several stations in East Bengal, for three or four years, when he was admitted as a working partner with Mr Lucas, who at the same time gave him his daughter in marriage In the following year the firm of Nahapiet & Co was started jointly by Messis Nahapiet and Lucas, and worked alongside Mr Lucas' own premises This business was subsequently acquired by Mi Nahapiet In 1903, through the influence of Mi T M Thaddeus, Mi Nahapiet was asked to work pucca baling business at Natainganj, carried on under the style of Messrs M Sarkies & Sons Under Mr Nahapiet's energetic management, this concern rapidly assumed a degree of prosperity that could not but have been very pleasing to its proprietor. He even tually handed it over to Messrs Finlay, Muir & Co, who now work the business Since that time Mi Nahapiet has devoted himself to working his own business, which is in a highly successful and pros perous condition

Messrs NARANDAS RAJARAM & Co, 2, Dean Lane, Fort, Bombay established in 1860 Dealers in Cotton, Seeds Iron, and Wheat Agents for Cotton Mills Ginning and Pressing Factories Partners, Messrs Viibhucandas Atmaram. Thakoordas, Maganlal Ramdas Narandas, and Puishotamdas Thakurdas Of two former part ners, Mr Narandas Purshotamdas retired from the firm in 1895, and Mr m died in Atmaram, the senior partner of the firm, also retired on the 18th October 1906 Purshotamdas Thakurdas

solely manages the firm's cotton business, while the other partners devote their attention to the seed and press business. The firm was



Mr. VIJBHUCINDIS ATMARAM

established for the purpose of carrying on business in the above mentioned commodities, in which a very large and profitable trade has been done for nearly half a century. In addition, the firm have taken up agencies for the following Joint Stock Companies. The Sarasvati Mills Ld., Bombay (spinning only), the Mofussil



SARASVATI MILLS

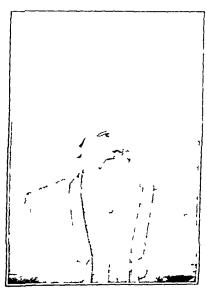
THE CYCLOPEDIA OF INDIA

in the printing business he had established, and in his other ventures. The Munshi is a large landed proprietor, having inherited the ancestral

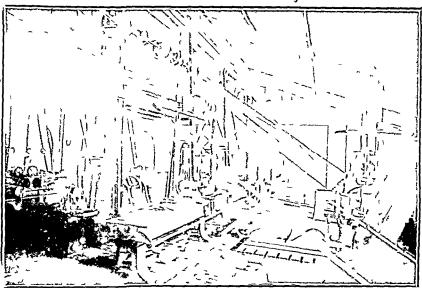
Bank Jubbulpore a trustee of the Agra College, and member of the Municipal Board. He is also proprietor of the Newal Kishore Ice

ing 2,000 biographics and 500 illustrations, and is issued in a style highly creditable to the publishers

Mr GOVIND PERSHAD BHARGAVA, son of the late Babu Ram Sawak, younger brother of Munshi Newal Kishore CIE, was born in 1877, and educated at Iucknow and Agra After leaving school, Govind Pershad entered the engineering profession, and having



Munshi Prac Naran Bharcaya

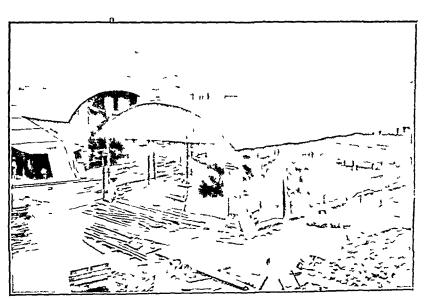


LUCKNOW IRON WORKS

property His zemindaries in the districts of Aligarh are very extensive, and he has a palatial residence at Aligarh He owns considerable personal property in land in the districts of Gonda, Barabanki, Unao,

and Hamirpore, where, being an udent and progressive agriculturist, he carries out citensive experiments in the cultivation of field and garden produce Recently he has started an experimental garden in Lucknow In business, Munshi Ping Natam's connec tions are very extensive Be sides being the proprictor of the Newal Kishore Steam Printing Works and the Lucknow Iron Works, he also carries on a banking business to facilitate his large operations, extending through the United Provinces He is also a Director of the Upper India Paper Mill Co, Ld, a concern of which his father, Munshi Newal Kishore, CIE, was the founder He is a member of the Upper India Chamber of Commerce, an honorary migistrate, a direc tor of the Bhargava Commercial

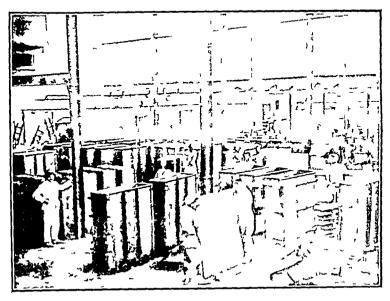
Factory at Lucknow In his various works he gives employment to upwards of 1,500 men Munshi Piag Narain is the compiler of the Sahifar Zariin (golden book), which he published in 1903 This is a splendid Indian biographical work, contain-



Lice you Iron Works

and in 1803, just ten years from the date of the Calcutta Exhibition, and fourteen years from the founding of the Company, the Calcutta factory was started on a small scale on a plot of ground, secured by Mi Shorter, on a portion of the estate of the late King of Oudh at Garden Reach. The uniform success attending the operations of the Company

m the sides of the boiling vats, into a mixing much ne, where n the soup is cooled down. In the case of soaps for toilet purposes, the colour and perfume are here added. From these mixers the soup is run into huge boxes, made of plates of non clamped together, in which it is allowed to remain for three to four days or until quite cold, when the

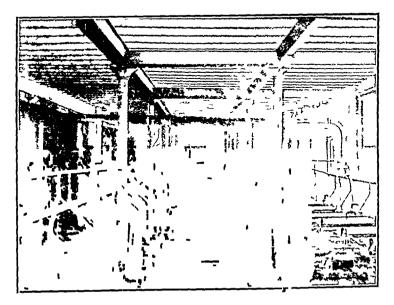


N W SOAP COMPANY'S SOAP I ACTORY

were again manifested in the Calcutta factory, which has been thrice en larged, necessitating two increases of capital, which now amounts to eleven lakhs of rupees

The Calcutta factory was erected on lines similar to the Meerut pre mises, the buildings standing on four sides, forming a large quadrangle convenient for carrying on out door work, and for storing casks, cases and other items not liable to injury from The offices are situa the weather ted on the north of the quadrangle, and may be seen in the centie of the first p cture, the upper floor being used as residential quarters soap boiling house stands immediately behind the offices In a corner of this building is a lofty platform, from which the manufacturer is able to direct the operations of soap boiling These operations are conducted in enormous vats, in which are placed the ingredients for soap making On completion of the boiling, the mixture is run through large pipes

clamps and side plates are removed and a brobdignagian block of soap is revealed, standing on the bottom plate which rests on iron wheels, enabling the finished block to be run to any part of the factory for cut ting up If the soap is of household description, it is cut into bars by an ingenious machine and allowed to dry in open piles, when it is ready to pack in cases for delivery Toilet soap passes through a more elaborate style of cutting, and is dried in a room heated to a rather higher temperature than the hottest cham ber of a Turkish bath The pieces are then stamped into tablets of various shapes, usually with the Company's name on one side and the name of the soap on the other Next to the boiling house is the cutting and stamping room, where the tablets are cut and stamped as above described Adjacent to the stamping room is the packing room, where the tablets are put up in suit ably labelled cases of various shapes The Toilet Soap milling and sizes room, a very important department, is devoted to the manufacture of the highest class of toilet soaps These are made from edible oils and fats, carefully claufied, and boiled with the requisite chemicals, resulting in a white curd soap which is cut into shavings by machinery, all the



N W SOAP COMPANY'S CANDLE PACTORY

perfected himself was appointed manager of the Lucknow Iron Works in 1899, which post he has capably filled ever since. The works, which give employment to about 300 men, form an entirely Indian industry, no Europeans being employed. They make a speciality of bolts, rivets and nuts, as well as steel trunks, cash boxes, cut. They do a large contract business with railways. Mr. Govind Pershad is a member of the Society of Engineers, England.

The NORTH-WEST SOAP Co. One of the most interesting features of modern In has the progress made in aits and manufac tures. Of these latter, one of the most striking is sorp and when soap is mentioned, the name of the North West Soap Munifacturing Company naturally comes first to mind The difficulties to be over come by the pioneers of in industry of this description are not easy to realise, except by those who have actually experienced these difficul-It is beside the mark to say that the experience and workshop practice of the Western world me ready to hand, for to start a factory in India is a vastly different matter to starting one in Europe In the first place, skilled workmen have literally to be created out of a 17w material, so ignorant, so prejudiced, so different from anything to be found anywhere else in the world, that the task often seems impossible Then, again, there is the climate India with a climate ranging from intense cold to extreme heat, sometimes exceedingly dry, and at others surcharged with humidity, presents unexpected dif ficulties to the manufacturer, particularly to him whose business it is to make soap Bearing these facts in mind, the phenomenal use of the North-West Soap Company must be looked upon as no mean achievement, and as reflect ing great credit upon those who adventured the r capital and endowed the enterprise with the r brains and skill

The concern was or ginally started as a private enterprise at Meerut in 1879. The original promoter miscalculated the amount of capital required, and his funds soon becoming exhaus

ted, a few friends, Lurope in and native, came to his aid, and rusing the sum of Rs 75 000 registered the business is a limited hibblity company. Thus was initiated the attempt to make highly refined toolet.



The late Mr. A. I. SHOLTEL

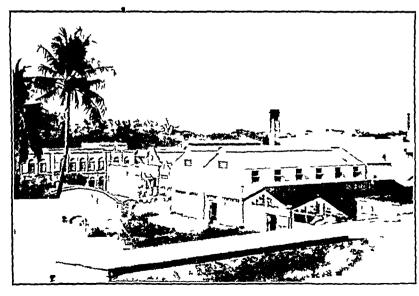
sorps in India after modern European methods. Soap, of a kind, had been made in India for centuries, but anybods who has had the misfortune to come across Dicca or Amritsa soap will doubly appre-

crite i change that his evolved the friginally scepted, delete, and refined toilet so ups now turned out by the ton from the factories of the North West So up. Company

The Meetit Works are situated conveniently fear the mun line of the North Western. Rule as and have their own private siding. The design of the factors is a square, the block on the west being occuped by the offices while that on the forth forms readential quarters for the staff. The other two sides comprise the factory proper and consist of stores, so up boiling, candle making, stamping a packing and despatch my departments.

From its incept on the Company was successful and although the quality of the soap has been constantly improved by tareless experiment the first output of the factory was of the highest class. At the Calcutta Pish bit on of 1853-84 the Company gared the only Gold Media in aided for soaps manufactured out of England. The late Mr. A.E. Shorter, then General Manager, was machinge of the exhibit, which consisted of soaps manufactured by himself.

The high quality of the North Western Soaps soon attracted a wide demand and in consequence, the Meetat Works had to be repeatedly extended, and the capital of the Company was twice increased Still, the facilities were not sufficient



N W SOAP COMPANY'S CALCUITA PACTORS (EXTERIOR VIEW)

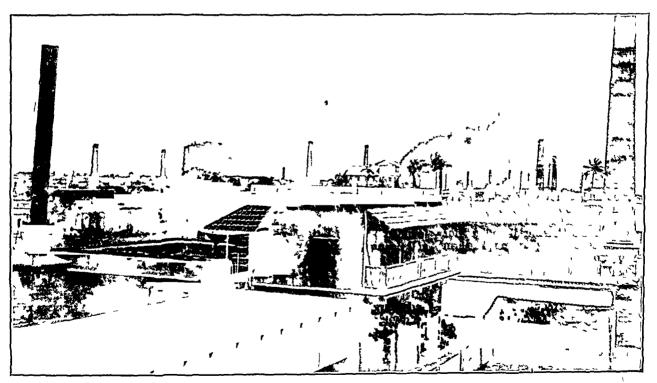
Cape Comorm. In shor from the Re I 120 shoe to the Scate have worth Rs 45000 each indeed article manufactured to the Company compares were to our old with a similar ortal in odd each quality for quark and latter value for the presidence is soon that of the coase made in 1800 that of the Company has one casped all branch for refers of all emisormed on in an efficient ratio.

The Compley of a more entered there cultered to the season of the More of the Amir of Achieles in and almost every National State in India and his also in extensive confection amounts Relational Rule was and Municipalities. I had a local very large busines also at the local moral india including the local moral india including the local State Oficials and other Officers both Civil and Military. The outturn of the Factor has steadily microused year after year and the Company is at precent working in a year thriving condition.

The ORHNIM SOAP IACTORY Calcutty This concern was established in the year 1906

and is maintained thromboat with the rio two to date French in chiners for the institute of toiler our and soups or all decription. The pieces employed the Fictory the latest and best methods of manuforture is carried out in the famous on municipals of Irmo In evel is he to space of ame the soups and at the Oriental Pacto viound such favour vith the public that the many ement had to import and in tall additional machinery for make ing tode oups and extra plant for The total outcoin of the bar so 1 Lucior, In this errors has been rused to a coolls perday of toilet nd 1000 lbs per day of bar and other commercial soups. The futory buildings are ill ic and have ber specially creeted. They are situated at Goa Bagin Coloutta The products of the Factory have met vith striking success, and its afrais are in every flourishing condition. No pains are spared to ensure the future success of the Lectory and to maintain the standard of excellence of its manufactures and to this end the manage-

ment have deputed a young man of considerable talent to visit Paris v here he is requiring a knowledge of the lit stand most improved modes of sup maling is carried of in one of the largest soap factories of Paris The Orient il So ip Factory in order to effect the printing of its ovin labels cte in the best style has established a printing press named the Paragon Press where high class printing is curred out. The Lactory has been is irded miny medils and certiticates in variou parts of India for its soups. The Proprieties is Srimiti Hemnilini Chov dhurani and a gentlem in from Paris acts is chemist and consulting expert Superintendent B C Ghosh miniger D C Riv assistant manager, P N Childravity boiling supervisor P K Chillianity machine mister 8 C. Muzumdin espatcher S Bist as There he about 50 vorkmen and others employed the works Representatives 31 for Branch Offices - For Burma and the Fa Fast, II Gupta for Midris and Cevlon I Gupta, for Bombay Messrs K B Sen & Co. for the United Provinces and the



Laterior of the Oriental Som Pactory

surplus moisture being evaporated in the diving room, till the sorp is of the nature of dired chips. These are ground in a mill, between granite rollers, until a stiff, homogeneous paste is produced which again is forced by a machine of enormous through interchangeable mouth pieces, according to the shape of tablet required It emerges in i continuous but, which is cut off into su table lengths to be pre-sed into irtistic shapes in powerful screw messes. The resulting tablets are wrapped in artistic wrappers of various designs, and packed in suitable boxes, fined with free paper and neith labelled

Candle making forms another branch of the Company's business

the materials being largely produced on the premises Glvcerine, which is so largely used in to let preparation, is made at the factory be ing a by product of fats and oils The Company has complete installation for chrift ng and concentrating the "wifeet water" which contains the glycerine The Company have in stalled a cool chamber, where tallow is pressed to remove the oil (the hard portion wax being the only item which is ie quired for candle making), so that the operation need

not be discontinued during the hot weather on account of excessive temperature. The candle moulding, a very interesting branch of the Company's business, which is carried on in a separate room, forms the subject of one of the accompanying illustrations.

Tin, card, and wood box making is a branch of the Company's business which is carried on as a separate department under the name of the N-W Box Manufacturing Company It is conducted in a separate building, and not only supplies the tins and boxes required by the Soap and Candle Company, but has also an

extensive chentele throughout Ind v Here, boxes for every conce while purpose we turned out. Tins for ion, coffee jum, preserved fruit tobacco, cignities, mouroof tooth powder, blacking, leither polishes etc Cud board boxes for milliners, boots tailoring, habeid ishery cignettes, cheroots, etc. Wooden boxes, and every description of packing cases, for forwarding goods by rul or post. The factory has a complete plant of up to date machinery for the rapid manufacture of boxes, including a set of wonderful nuling machines, by mems of which the sides and bottoms of wooden boxes are nalled together very speedaly as many is sx nuls being driven home at one



N-W SOAP COMPANY'S TIN WORKSHOPS

time, when required Lvery branch of the Company's business is under skilled European supervision, and in charge of men who have grined expert knowledge of their business in the best manufacturing concerns in England and Europe The other employes of the Company ne entirely natives of India The capital has been largely subscribed by Indian shueholders, and by fur the larger part of the material used in the manufacture of soap and candles is of local production. The Company therefore may justly claim to be a real Swadeshi enterprise of the best kind

NORTH WISE TAN-The NERY Company Limited, Crun pore 1stablished in the year 1503 Head Office Campore with igeneses throughout India London Acents All n Brothers & Company, 14 Devoushire Square Bishops, ite Street - The Company ind its I ictory v is first stirted in the year 1801 by Mr. I. Lov with the colop ration of Mr Bond. and in the year 1503 the concern. was turned into a limited hability company with a nominal curtal of rupies ten 14 hs sub-cribed cipit 1-512 cibbs. The Company employs over 1 230 t in Is, and its factories and premies occupy 35 icres of land on the banks of the Company is the Gintes I ho

lugis retalmater of leither goods in the I est and manufactures throughout with the litest and best English and Amere in machiners, while every department is controlled by Lurope in experts Besides being transers and curriers, the Compmy munifictures bags, trunks port minteur Glidtone bus, suit cases, courier and brief bags, belting, harness saddles. boots, shoes truvelling requisites of every description and military campments leather used is tanned and cur-

ried in the Company's own factory, on exact English principles and by the latest scientific methods, and is absolutely free from the objection able smell, common to practically country productions Ench article produced is subjected to a severe and searching examination before leaving the Factory Company has scriously recognized the importance of attiining strength and durability in the prepaintion of all its goods, and exercises the greatest care in the selection of all material employed, buying hides and skins in all parts of India, from Peshawar to

and integrity which characterize their transactions with chem. In fact, it may be sud-without examples tion that they have by their straight forward dealings aidea in the temoy dof obstacles which stood in the way of freely intercourse in business between Bengales and Luropeans

In private life 1 oth father and son are examples to their countrymen. They are orthodox Hindus, and houghthey are not howleds, of leaders of their community, they still return the simple and quiet ways or their early lift, and everything they do is characterized by an entire absence of ostentation. Though they give full scope to their generous impulses the world at large I nows very little of the extent of their extensive characters.

Mesis PLAKE, ALIEN & Co. Manufacturns and Dispensing Chemists and Acrated Water Manu ficturers Lucknow Established in the year 1851. Besides being whole side chemists and manufacturers of terited witers en a luge scale, the 'um do a considerable general business is importers photographic suppliers etc. They we ilso auc tioneers in a large way of busines, and also deal largely in furniture During the pist five years the firm have largely extended their busines and their building it Lucknov, with its extensive front ige, is one of the finest in the city. They employ several Puro peins and about fifty native em ployees. Then wholes de cut dogue

circulates all over India, and leads to a very large business Mr John Albert Banyard the present head of the business has been associated with the firm for the past 20 years and his conducted it himself for the last five years. He is a qualified chemist and acquired his experience in England.

Messs PANION & Co Boot and Shor Manufacturers and Importers Allahabad. This firm was originally established in Calcutta in the cirly sixtes by the late. Adam Panton but wis removed to Allahabad in the veir 1869. Mi Adam Panton curred on the business till his death in 1900, when he was succeeded in the proprietorship by his two sons. Messas George

and Lyelyn Paston, and his drughter Miss Kate Paxton v ho inherited the business Messrs George and Evelyn Paxton are the active managers of the firm's iffa is They manufacture high class hand sown boots and shoes, walking riding, shooting, and all descriptions of men's foot gear, and in this department they employ some 30 skilled workmen who have ill been trained in the business of minufacture by Messis Pixton & Co Their manu facture of hand made boots and shoes is a special line, and they do a very extensive business, not only in India, but with Hong Kong, Singapore, Penang, Burma, and with England They are also large importers of harness, sad dlery and sporting goods Both the maniging partners are thor oughly practical men in their line of business, having received their truning with their father Mr George Paxton, Munaging Partner in Messrs Parton & Co. Allahabad was born at Simla in the ven 1863 and educated at schools in Simla and Calcutta On leaving school he joined his father in the business of Paxton & Co, in which he has remained ever since He has devoted a gicat deal of time and attention to Freemisonry, having been initiatcd in 1885 in Lodge "Independence with Philanthropy," E C 301, and has been Treasurer since 1900, succeeding his father in that office He was previously Secretary from 1886 to 1900 He



Mesers B K PAUL AND CO'S NEW BUILDING

Punjab, P Chakravarti, for Dacca, Messrs M L Dey The Managing Director is Mr P N Roy Chowdhury The capital invested amounts to Rs 1,00,000

Messrs M OSTERMAYER & Company, Merchants and Agents, 3, Elphinstone Circle, Bombay, were established in the year 1891 by Mr M Ostermayer They have a branch in Madras, 169, Devaiaja Modelly Street Mr M Ostermayer retired in the year 1898, when Messrs G Ostermayer and H He berlein took over the firm It deals principally in dyes, representing the well known firm of Badische Anilin and Soda Fabrik, Lud vigshafen on Rhine, Germany, the



Mr G OSTERMAYER

inventors and manufacturers of alizarine and aniline dyes and other chemicals, supplying the same allover the world. They have also manufactured the "Artificial Indigo" for the last seven or eight years. The firm also represents Brunner, Mond & Company, Limited, Northwich, England. It supplies to mills and other diversity houses all the diversity and the chemicals required in the process of dyeing, bleaching printing, etc. The firm designs diversity, etc. The firm designs diversity, and supplies, the complete installation and other machinery required by the mills. The firm is

a member of the Bombay Chamber of Commerce

Mr G OSTERMAYER, partner in the above firm, was born in Germany in 1871. He was also educated there, and after passing the military training was engaged with Messrs G L Guser, Mer chants, Hamburg, in the year 1891 2 He was then connected with Messis S Albrecht & Company, of Manchester, for a year, was in the south of Germany for three years, and then joined the Badische Anilin and Soda Fabrik for three months, and afterwards came to India in the year 1893 to join Messrs M Ostermayer & Company Mr H Heberlein joined the firm in the year 1892 He was born in Ger many, and was educated partly in Germany and partly in Switzerland He gamed his commercial knowledge and experience in different Banks in Switzerland, Ger many and England He was also connected with different commercial houses in Europe He came to India in the year 1892 as an assistant in the firm, and was made a partner in the year 1898

Messrs PATTON & Co, Incorporated Accountants and Auditors, 2, Mangoe Lane, Calcutta

Mr Lauder Primrose Patton came to Calcutta in January 1892 as Accountant to Messrs Lyall, Marshall & Co On 1st November 1897, he began practice at No 2, Mangoe Lane, as a public account ant under the style of Patton & Co Mi Patton is an associate of the Society of Accountants and Auditors (Incorporated 1885), I ondon

Messis BUTTO KRISTO PAUL & Co, 7 & 12, Bonfield's Lane Cal cutta This well known firm was founded by Babu Butto Kristo Paul, and is at present owned by him, and his son, Babu Bhut Nath Paul They are wholesale and retail chem ists and druggists and importers of patent and proprietary medicines and suigical instruments. Their head office is in Bonfield's Lane, Calcutta, and they have branches all over the town. From the small est beginning, a business which is the largest in the line in the whole of India has been built up. There is hardly another Bengali firm which

has attained the same eminence or enjoys the same reputation and popularity as the firm of Butto Kristo Paul & Co Babu Bhut Nath Paul was compelled to discontinue his studies at an early age to join his father's business, which even then had grown so much as to be impossi ble of efficient management by Babu Butto Kristo Paul alone event marks an epoch in the his tory of the firm, for from the moment Babu Bhut Nath Paul took his seat behind the counter, success came in with a rush and the business ' began to increase by leaps and bounds, and it is well known that the present unique position of the firm is due to his undoubted genius, single minded devotion, and re-



Babu BUTTO KRISTO PAUL

markable business acumen The magnitude of the business and the great reputation it deservedly en joys for its honest and straight-forward dealings have secured for it the distinguished and (to a Bengali) iare honour of Viceregal pitronage Messis Butto Kristo Paul & Co have over 300 assistants in their employ, and are the manufacturers of many indigenous drugs and chemicals, which have found an extensive circulation throughout India The boundless trust and confidence which the big European and American business houses repose in Messis Butto Kristo Paul & Co, furnish incontestible proof of the honesty

passed through the various Chairs and was installed. Water of the

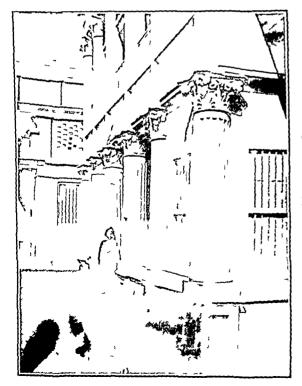


Mr Ciorci Pistos

Lodge on 18th December 1900 He became a Mark Mason in the year 1886 He is Grand D. J. Over cer Distract Grand Lodge of Bengal. He was evaled to the degree of Royal Arch Majoria, the ven 1887, and La ery Ling B theo Chans—Lt and add La evaluate B D G erst V teat Sojoner r m D G. Chapter of Land He

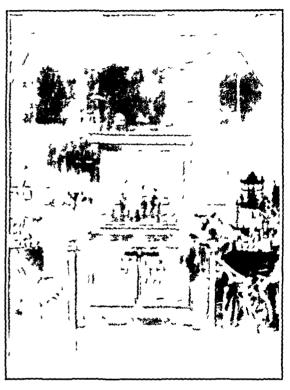
his til notherstholder and his been through the authorite Mr. I selve Pistor the second put nor of Pistor & Coowis born and educated at Collection busines after leaven school

PIONIER CONDIMINI Company, Cd cutta Head Office and Lac tory, 37 Benta tola Line Cd cutta, Show rooms, 17 3, Dhur



PIONEER CONDINENT COMPANY'S FACTORY

to be fine poored. The provest to be the description of the descriptio



PIONITIC CONDINING CO'S STAIT AT THE CALCUTA INHIBITION

rumtoll di Street Calcutta, manufac turers of the celebrated "Manuse" Brind Indian con diments, juns jellies chutness preserves manna lades, syrups, sinces pickles cheeses curv powders, pep pers, vinegar, etc. To this business the Company have recently added the preparation of bu les, arrowsoot and similar food stuffs specially prepared for the use of in fants and my ilids and they make a speciality of Indian

brought to bear The Company have surmounted these difficulties and put up in hermeteille seiled tins preserves of Indian fruits which are specially attractive is retaining the characteristic flavour of the fresh article. The Poncer Company have attuned a welldeserved reputation for the prepara tion of the numerous descriptions of curry powders which are peculiar to the country. The same may be said of then Indian sinces of which they manufacture many special vincties Then vinegar has been declared, after analysis to be the best produced in India The strups made by the firm have obtained high repute and are used by many of the local dispensiones, which fact sufficiently attests their purity and excellence. In the preparation of barley, irrowroot, etc.

Directors to jist December 1996 showing is it does -

CHITH

Pud up shares re r | K | 100 c ch Partially paid up hare | r | K | 22 () Ital hs | 22 () Ital hs | 22 () Ital depart | T | 1 () 6 a Houring Depart | K | 1 () 6

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As a practical proof of the sound mess of the Bink's business may be adduced the net profit of Rs 41,850 10 being over 18 per cent, or at the rate of over 30 per cent per maum on the pard up capital. If to the above be added the balance of Rs 3,8125 5 3 carried from the previous vein the credit of Profit and Loss Account, thus turnshing in idea of the business transacted by the Bink through its branches and Head Office.

Founded in the capital of the Puniah, the Bank has used all ats apportunities to the best advantage in advancing its interests and expanding the business in that Province, and in those parts of India closely connected with the Puniah

Besides its Heid Office in Lihote, it has seven branches in the Punjah, it Lahore Cantonment Dalhousie Ferozepore, Jullundur, Mooltan, Stalkot, and Smla Bevond the Punjah, in the North West Frontae Province it has three branches or Peshawar, Nowshera, and Abbotta bad, one in Karacha, the natural port of the Punjah, one in Quetta, and one in Sunagai, Kashmu, which has also a Sub-office in Gulmary during the season

Due mainly to the exertions of the Maniging Director, the Bank, on 30th June 1890, only eight months after its start, had as its working capital nearly nine lakhs, which has kept increasing veir by you until it now stands at the respect tible figure of one erose and fourteen lakhs a good creterion by which to gauge the Bank's standing

The experience of the Directors has firmly impressed upon them the importance of maintaining in adequate Reserve, and, the shareholders being satisfied with a moderate dividend, a Reserve Fund, which

now amounts to four likhs has ben formed and this has been entirely made up from surplus profits. The Present Directors of the Bail are

The Hon'ble St Dayd Pules Mis on Kt ett, filt Ju Nath, I da Nasangh Des W Mux Misson Isq, and W McDonda Misson Isq

The And ters are Messis Mentens King and Simson Chartered Accountants

Su DAVID MASSON (Lieut Colord, 187 Parjau Foliatea Rifles)
Maragree Director of the Puljab
Budli Company Limited Solis
Scorsman and was book Ross
share nataz. After a short trade (a)



Lieut Col Su David Masson Ki, Cii

solicitor's office in Edinbugh, he adopted building is he profession, receiving he training in the Commer cal Building Scotland's Head Office in that city. With tenyours' experience of banking he came to India in January 1872, as Manager of the India Brach of the defunct Punjab B. Limited. On that institution going into I quidation three years later, Sn. David (then Mr.) joined Sn. (then Mr.) James Walker, the late Sa (then Mr.) William Ratting in und the late Colonel Arthur Cory in strating the "Civil and Militury Gazette" as a duly paper in Lahore, he and Colonel Cory

being joint managing proprietors for mint veris, the same patter ship in the meintime having also purchased the "Proncer" of Allahabid Larly in 1887 Sn Day d joined the staff of the Allahace Brik of Simha Ed, as Agent it Riwal Pinch and Murree—a temporary strengthening of the staff of that Brik to enable Sir James Walker, their manager, to take two years leave to Lurope The taste for the old profession revived and in 1889 he founded the Punjab banking Company, Limited

Is a routh Sa David was connect ed vith vinous Edinburgh charities, is secretary or treasurer, and he joined the volunteer force there in his seventeenth you. Thus was Ind the foundation of his public ud volunteer servees in India both of which he tool up without loss of time on his arrival in this country Several of the charities which he founded in the early seventies in co-operation with the then Chiplan of Lihore, the Bildwar still flourish—the Cithedral Free School and Orphan ige being a specially successful induscful institution. At a liter period he was one of the original tors of the Pasteur Institute at Kasiuh, and the first Treasurer of the Fund He has rendered valu able services to Government as Secretary and Chairman, respec-tively, of two Punjab Famine Committees, and also as Chairman, Secretur, or member of various important committees On three occasions he has been nominated to the Legislative Council of the Punjab, resigning in 1907 on temporarily leaving the Province

But the perhaps in volunteering matters that Sir David has been most before the public. He has been a volunteer for over 40 years, filling various ranks from private to Commandant in the 1st Pumpab Volunteers, holding the latter rank for 15 years and being still an active volunteer, though nominally on the Supernamenal List His honours in this connection have been numerous, the V D, A D C first to the Commander in Chief and later to the Viceroy and Governor General, and the C I E. In 1905 these were crowned by a Knighthood

Messis A Robertson & Son was extensive, and large jute mills on the Continent and in India were entirely furnished by the firm. In 1895 the Camb building business of Messrs James Proctor was bought over by Messis Robertson, and the addition of this to the existing works of the firm put them in a position to fulfil ill denom is made upon them. There was a steady mereuse in the business of the him until the year 1901 when Mi Robertson, with a view to extending the Indian business, extered into a partnership with Messis McGreg vi and Balfour, and a branch was opened at Calcutta early in 1002, Mr D W Melville being appointed manager, and Mr Watson traveller, to the firm Mr \ Rebestson took charge of the manufacturing department. This development however, met with very small suc cess, and 1 was contemplated in consequence to sell off the stock and wind up the business Negotrations were set on foot for the purpose, when Mr Robertson asked permission to take over control, and this being granted, a change came over the fortunes of the firm, which has enjoyed a fair measure of success ever since In consequence of certain misunderstandings between the Indian branch and the home office, Mr Andrew Robertson, and Mr Lewis B Robertson, his son, who joined the branch in 1904, have decided to make a fresh start. With this end in view they have purchased a piece of land in Metcalfe Street. Calcutta, whereon they intend erecting a factory and godown suitable for the conduct of a Reed and Camb Manufacturing and Mill Furnishing business Mr Andrew Robertson, whose practical working knewledge of the business extends over a period of 30 years, intends to spare no expense in the erection of the building and the laying dow i of up to date machinery When completed, the works will be on a level with the very best fur rishel manufactories in the United Kingdom

Mr LEWIS B ROBERTSON, late Secretary to the McGregor and Balfour Co Ld, Manufacturers of Reeds and Cambs, No 1-1, Mission Row, Calcutta, was born in 1884,

m Scotland, and educated at a school in Dunkirk, and at W Stewart Thompson's Academy In 1903 he joined the Manchester Post Office as sorting clerk and telegraphist. Here he remained for a few months only and in 1904 he came out to India to join the him of McGregor and Balfour as secretary to the firm in Calcutta. He is the eldest son of Mr. Andrew Robertson the late Manager of the works of the Company Ar Lewis B Robertson and his father Ar Indrew Robertson have since severed their connection with Messrs McGregor & Balfour and have started their own hrm, Messrs A Robertson & Son

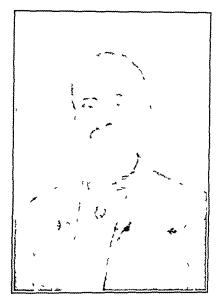
Messrs ALOIS SCHWEIGFR & Company, Limited, Merchants to Forbes Street Fort Bombay established in Bombay in the year



Mr ALOIS SCHWIIGIR

1901 The firm acted is Agents for many English as well as French business houses for nearly 15 years previous to its establishment in its own premises. It has a branch at Karachi under the management and control of the Bombay Manager. The firm has Agencies in the principal cities in India, such as Calcutta, Madras, Colombo, Delhi, and in the Straits Settlements, at Java, Sourabaya, Rangoon, and does a large business with China, Japan, and South Africa. It

deals in import and export trade, principally in diamonds, pearls, precious stones silk Manchester picce goods Continental, piece goods, sugar, enamelled ware,



Mi P R PATLI

hardware, glassware, general provisions, and in many other sundry lines

Mr Schweiger carried on busi ness for a number of years as "Alors Schweiger," but recently joined hands with the Creditans talt, the Austrian Commercial Bank, and now carries on business under the style of "Alois Schweiger & Co Vienna," its branches being styled as limited concerns This firm is recognized as one of the largest Austrian firms, carry ing on an extensive trade in all parts of the world Mr Schweiger was knighted recently by the Aus tuan Government as "Senior Hoch-wohlegboren Herrn Kaiserlrath Alois Schweiger " He holds a unique position on the Continent, and takes a leading part in all Government affairs specially relating to com

This firm has its Head Office in Vienna, and Branches and Agencies in Hamburg, Milan, London, Manchester, Paris, and every important business town Mi Piroshaw R Patel is Manager of the Bombay Branch

On leaving school he obtained em ployment with the Government Central Press, Bombay, and rem un ed in that service for nine years. at the expiry of which period he started in business on his own account it Amraoti, where he opened the "Berar Cash Bazar" After running this business for a while, Mr Shiofi took a trip to Europe and visited the commercial centres of England and the Contin ent, London, Paris Vienna, etc., on the lookout for novelt es. On his return to India he established a joint business under the style of Shroff Bros From small beginnings he soon raised his firm to a respectable position, and they now do a very large business in crockers, plated ware, jewellery, cutlery, fancy goods American novelties, German goods, They hold very large stocks of works of art of all descriptions The firm have business connections m Ceylon, Burma, Australia and several other countries Their empo rium is largely patronised by tourists and others, as a place where goods as described above may be pur chased at reasonable rates success of the firm is in a large measure due to the energy and commercial acumen of Mi P D Shroff

Messrs PITAMBUR SIRCAR & Co, Cabinet makers, upholsterers, house-furnishers, manufacturers of structural woodwork, timber merchants etc 46 & 47 Bow Bazar

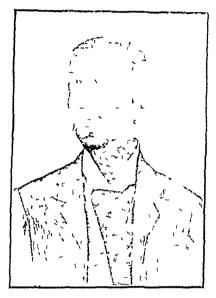
Messrs Pitambur Sircar & Co's Desk 48

Street, Calcutta Established in 1854 by the late Babu Pitambur Sircar During his lifetime the firm flourished exceedingly and did a large business with Government officers and Railway Companies, as well as with a considerable private clientele Babu Pitambur Sircar had a positive genius for business in this line. His son and grandson carried on the business after his death but the latter took in partners, not finding himself capable of managing the business alone This led to dissensions, and ultimately the business was disposed off by Sheriff's' sale in 1904 The purchaser was Babu Ashutosh De who resold it to his maternal Babu uncle, Annoda Coomar Nundy, by whom it is at present carried on as sole proprietor Under his management the business of the firm has greatly increased Up to 1904 the firm only carried on the furniture business at their premises, 46, Bow Bazar Street but Babu A C Nundy added the premises, 47, Bow Bazar Street, for show-room purposes, and also a large tumber yard for the purpose of executing orders for structural woodwork of all descriptions, besides supplying teak planks, scantlings, logs, beams, railway sleepers, etc This yard is situated on the Coolia Tangra Road, and is about 10 bighas ın extent The firm now publish an excellently printed illustrated which is catalogue circulated

> through Bengal, Assam, and other Provinces The extent of the business with Govern ment. Railways, District Boards and Municipalities, is very considerable, besides which the firm is largely patronized by Indian princes and nobles A portion of the office furni ture for the offices of the new Government of Eastern Bengal and Assam was ordered by His Honour the Lieute nant Governorfrom this firm On the occasion of HRH

the Prince of Wales's visit Messrs Pitambur Sircar & Co were entrusted with a large part of the decorations of Calcutta, and carried out their contract to the satisfaction of the authorities

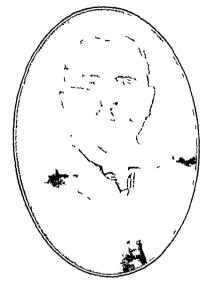
Babu ANNODA COOMAR NUNDY, sole proprietor of Pitambur Sircar & Co, has a widespread reputation as a business man throughout not only Bengal, but



Bibii A C NUNDY

Assam, the United Provinces, and the Punjab He was born in 1866 and was educated at the Sanscrit College and the Hare School, Calcutta, where he acquired a thorough knowledge of English as well as a liberal education in other departments of knowledge He received his business training with his father and attended to affairs with such diligence that at an early age he was entrusted with the management of the two well-known firms of A C Nundy & Co, and Nundy & Friends which he has now conducted with success for about twenty years He acquired the business of Messrs Pitambur Sircar, & Co, by purchase, in July, 1904

Mr THOMAS SMITH (Captain, Campore Volunteer Rifles), Agent, Allahabad Banl, Ld, Campore, Vice President of the Upper India Chamber of Commerce, was born at Mr W B SHEWAN, Tanner, Currier, and Leather Merchant, Cawnpore This business was established in the year 1902 by the proprietor, Mr W B Shewan, who makes a speciality of the finer classes



Mr W B SHEWAN

of leather, such as tan leather in all shades, box calf, and chromed kid skins, black, and in colours, which have created a great demand Mr Shewan also produces harness. bridle and gaiter leather of ill descriptions The factory is equip ped with the latest developments in machinery, and the processes are the most modern and efficient known Mi Shewan makes a speciality of fancy tanning, dressing all kind of skins for the public including lizard, snake and crocodile skins. and even rhinoceros hide. He has always a large number of miscel laneous skins in process of preparation, and has received numerous testimonials from his customers He also carries on the business of a practical taxidermist Shawan's experience of his business is of very long standing. He has been 35 years in the leather trade, served seven years' apprentice ship in Scotland, and has made a special study of leather manufacture, on which he is an authority Of his long career in the trade 20 years have been spent in Irdia He was one of the founders of the North-West Tannery Co, Ld of Cawn

pore, and the Company' fictory was built on plans prepared by him He was Societiny of this Company for eight your. The leither preduced by Mr. Shewan bas for many years commanded the highest prices in India, and is well known to the natives in the verracular as "Soon Saheb & Chamaa'' Ma W Showan was born it Peterheid Aberdeenshae, in the year 1858, and educated it his native town. He guned his knowledge of the leather trade in Scotland where he served his apprenticeship, and was cm ploved for several veirs is tanner and currento Messis Cooper Allen & Co He left them to join that North West Innners Company, Ld, of which he was one of the founders, and subsequently joined Wense & Co, whose fictory also was built on plins prepried by him, and with whom he stayed two ind a half years, leaving them to start his own business

Mr REGINALD HAROLD SHOOBRIDGE Merchant, Agent and General Adviser to the Bhav nagar State, Kathiawar was born in the year 1878 in Laverpool, and was educated at the Liverpool College



Mr R H SHOOBRIDG L

After finishing his education he served his apprenticeship with Sin clair & Co, Shipowners of Liverpool He remained with the firm for

about six years. In the year 1900 he went to Chinx and joined Patterson & Co. and remained with them for three years. He was stationed at Shanghai, Hong Kong, and different other towns in China, and



Mr P D Smorr

at Singapore. He ilso represented the firm in Japan and Western Australia He came to India m the year 1903 when he first visited the southern part, and subsequently visited Kathawar as in Agent to Furner, Morrison & Co He after wards became Agent to Killick, Nixon & Co, and now represents in Kathawai several commercial firms of both Calcutta and Bombas In addition to this he is especially engaged by the Bhavingar State for receiving and entertaining the State European guests on behalf of the Maharaja of Bhanngar He takes a great interest in sport in general, and hockey, cricket, riding, p gst cking and shooting in particular. He played cricket with the Southern India feam against the Authentics in 1903

Mr PHEROZESHAW DHANJI BHAI SHROFF, founder and head partner of Shroff Bros, Bombay, was born at Khetwada, Bombay in 1852, and was educated at the Elphunstone High School, Bombay Mr Shroff had the misfortune to lose both hs parents when he was only eleven years of age Assurance Company thus giving a lead which has since been followed by several other lafe Offices

An additional sin lestorical building was also erected by the Company a few years later on an adjoining plot of ground

The selection of these sites is a tribute to the forest hi of the man agement as the Company's Offices owing to the greated in the houses that have also place in bombay or recent years stand in your is not all principal Lumps in lusiness centre.

The present brinch Secretary is Mr. I. A. Prevest

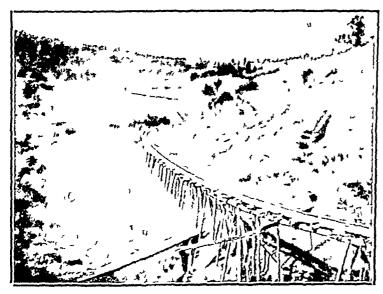
Further details regarding the ceneral history of the Company will be found in Volume No. 1

Mesers SPIDDING a Co Timber Merchants and Contractorestablished in 1884, with Head Office in I thore and works in Jummoo and Is ishmir States and Chamba State. The original part ners were H. Mitchell Headerson and Charles Spedding. The latter retired in 1896, and his place in the firm was taken by Mr. J. Mitchell in that year Spedding & Co. made the latter portion of the Juclium Villey Road from Chikoti to Stangar and the road from Stringar to Glight During the Hunza vag r. empaign the members of the firm, by request, tool part in the operations, and received the thanks of the Government of Inna tor the resistance they give. In recent years the business of the min has been principally contine I to the working of extensive torest I uses in the above States.

Mr. J. N. I. MITCHLLL of Messas Spedding & Co., was born in 1858 in Sinchre, Arshue, N.B.,



Mr J N P Mitchill



Messes Spending & Co Showing how timber and cut logs are brought down from the hills

and was educated at Edinburgh and St Andrews. He came to the I ist in 1880 with the intention of becoming a cofice planter in Ceylon, but owing to the bad state of coffee cultivation in the Island during that and the following years, he left casion in 1883. After visiting Calcutta and Agra, he finally settled down in Bombay establishing the firm of Machell & Co, Cotton Agents and Biokers. In 1895 he retired from Mitchell & Co, and in the following year joined his brother in the firm of Speedding & Co, of I thore and Kashmu

W HI / R Y MITCHLII HINDERSON Senior partner of Spedding and Company was born on the sen 1856 of Scooland and received his education privately He came to Indiam 1874 and started tea-planting in Chota Nagpur This concern he carried on for about six veus, when he joined a brother in Cilcutta, for a short period, in commercial industrics led by his miture experience, he persuaded Mr Chules Spedding, who was an engineer, to join him in contracts, and this served is a nucleus for the present well-known firm of Spedding and Co Contractors and Engineers in Kashinii

Messis SIEVENS & Company, Limited, Architects, Engineers, and Surveyors, King's Buildings, Hornby Road, Bombay, founded in the year 1888 and formed into 1 Limited Company in the year 1007 Members of the firm are -Charles Frederick Stevens B G Triggs and T S Gregson The firm was founded by the late Frederick William Stevens in the year 1888 He arrived in India in the year 1867 and worked at Poona under Colonel Mellis, RL In January, 1868, he was transferred to Bombay where he joined General Fuller, RE, Architect to the Government Various promotions followed in due course In 1876 he was appointed Examiner to the Bombay School In 1877 his services were of Ait placed at the disposal of the G I P Railway Company for the purpose of designing the great terminal station at Bori Bunder, which is one of the finest examples of his creative skill In 1878 he proceeded to Europe on

Haddington, Scotland, and educated at the Burgh School, where he was medallist, and at the Knox Institute, where he held Bursaues Mr Thomas Smith first turned his attention to the law, but subse quently obtained a position in the Royal Bank of Scotland, at Had dington, and discontinued his law studies In the year 1895 he came out to India to join the Allahabad Bank and served for a time as As sistant at the Head Office He has now been agent of the Bank at Cawnpore at different periods for about seven years, and has also been in charge of the agencies at Nam Tal, Lucknow and Calcutta Mr Smith was elected President



Mr Thomas Smith

of the Upper India Chamber of Commerce in 1905, and has been Vice President of that body for two years. He is a Director and Auditor of several Public Companies in Cawapore and is Freasurer of various societies, and a member of the Institute of Bankers in Scotland. He has been connected with the Volunteer movement for sixteen years, and is a Captain in the Cawapore Volunteer Rifles. He was ordained an Elder of the Church of Scotland four years ago

Messrs SORABJEE SHAPUR JEE & Co, Engineers, Bombay, Head Office, 16, Apollo Street,

Remington Buildings, established in the year 1850 The London firm is carried under the style of Messis Shapurjee and Ratinshaw The business was first stirted by Mi Solablee Shapurjee, grandfather of the sole surviving partner, Mr. Sha purice Sorabjec in 1850 Heestab lished the very first non foundry and engineering works in India He also started a flour mill and was the pioneer of the introduction into Inda of machiners for the open ing and cleaning of wool. The firm now represents Mr Eljth Ashworth Munchester Messis John Musgrave & Sons, Messrs Brooks & Doxes Limited (late Samuel Brooks) Messrs Butterworth & Dicken son Mr Joseph Stubbs, Messis Witter & Sons and Messis Red daway & Co Bes des the general machinery importing bus ness, its foundries and workshops the firm are Managing Agents for the Globe Mills, Ld Bomb it Mr Shipurice Sorabjee, the sole surviving putner of Messrs Sorabjee Shapurjee & Co, is the eldest son of the daughter of Mr Sorabice, the found er of the firm He was idopted by his grandfather and took his name He passed the Matriculation Examination when he was sixteen years About 1879 he joined this firm and, desiring to gain a practical knowledge of his profess on he left for England in 1884, and enter ed the works of Messis Hick, Har greaves & Co, Engineers of Bolton, and remained with them for three years He also joined the evening classes at Owen's College, won the Ashbury Scholarsh p, and gained first class honours in Mechanical Engineering at the City and Guilds of London Institute In 1887 he was enrolled a Member of the Institute of Mechanical Engineers and an Associate Member of the Institution of Civil Engineers He had the honour of being presented at Court by the then Secretary of State for Ind a Mr Sorabjee's firm have supplied to many mills Messrs Musgrave's engines, boil ers, gearing, etc, aggregat ng 1 total of 25,000 horse power Among these are one of 2,500 I H P, horizontal compound condens ing tooth gearing engines, and several vertical triple and quadruple expansion engines of the Fleming and Ferguson type, with no dead

centres For Messrs Brooks and Doxey, Id, he has sold in India a total of over a million of ring spindles. Mi Sorabjee has already travelled the Red Sea 15 to 16 times,



Mr Shapurjei Sorabjii

and still finds it desirable to pay more visits to Lurope in further developing the important business of his firm

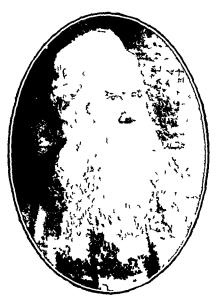
The SIANDARD LIIE AS SURANCE Company, Bombay A Branch Office of this Company was opened in Bombay in 1876 under the management of Mr Thomas Lang (since deceased)

Owing to the growth of the business it was considered expedient by the Company to erect a building of their own and in January 1889 the handsome four storied suite of offices known as the "Standard Buildings" on Holinby Road was opened during the Secretaryship of Mr George Olivei

The façade of the building is of blue stone picked out with white, and the aicade over the footpath is ornamented with handsome polished Abeideen gianite pillars. The upper stoiev is surmounted by a tympanum representing the parable of the five wise and five foolish Virgins, which was carved in the Bombay School of Art from a design sent out from England

These premises were the first to be erected in India by a Life

Mr Strachan has been connected with the Allahabad Bank, Limited,



Mr JOHN DUNCAN STRACHAN

for over 35 years, and for over a quarter of a century has been a Director of the Bank

HEGERLE, SULZER & Co, Merchants, 20, Hummum Street, Bombay The Bombay house, which was established in the year 1896, is an agency of the head firm, whose offices are at Zurich in Switzerland, and which was established in 1867. The principal business of the firm is in English and Contin ental woollen and cotton piece goods and silken fabrics have branches of their own at Delhi, Cawnpore and Amritsar The partners are William Hegerle and Albert Sulzer The Manager of the Bombay Branch is Mr O Bruderer, and of the Delhi Branch, Mr Jac Rank

The SWADESHI MILLS Company, Bombay Messrs Tata & Sons are the Agents for this Concern, the promoter of which was that distinguished Indian, the late Mr | N Tata, whose original intention was to erect a Mill for the production of fine goods only Taking advantage, however, of the opportunity, Mr Tata purchased, on favourable terms, one of the largest Mills in India, the Dharamsey Mills (founded in 1860) and with this acquisition

altered his first intentions, launching in 1887 a new venture under the name of the Swadeshi Mills Com pany Prior to the Agency being taken over by Messis Tata & Sons, the Mill went into liquidation four times between 1860 and 1887, a contingency which has twice been obvirted under new management As a first important step in the right direction, the old machinery was immediately renovated, and at the present date the Mill is practic ally complete with 50,000 spindles and 1,150 looms To day the Mill spins count as fine as 120's out of Egyptian cotton, and weaves jac onets and fine dhoties out of 60's warp and 80's west yarns produced at the Mill In India, China and the Levant the Company's yains enjoy a very high reputa tion, its cloth being chiefly con sumed in India and in very great demand The paid up capital of the Company, which, it should be added, was awarded gold and silver medals at the Exhibitions of India, Athens, and Hanoi, is Rs 20,00,000 with a reserve of Rs 10,00,000 The last ad interim dividend paid was at the rate of 18 per cent on the paid up capital

The Hon Sır VITHALDAS DAMODHER THACKERSEY, JP, belongs to the Bhattia community, a wealthy and enterprising class which controls a very large pro portion of the trade of Bombay, and has done much to make Bombay prosperous and progressive His firm controls five of the largest cotton spinning and weaving mills in Bombay, namely, the Hindoostan Spinning and Weaving Mills Co, Ld , the Western India Spinning and Manufacturing Co, Ld, the Indian Manufacturing Co, Ld, the Hongkong Spinning and Manu facturing Co, Ld, and the Crown Spinning and Manufacturing Co, Ld, which have in all 132,604 spindles and 2,686 looms, and employ 5,553 hands Sir Vithaldas has, for the past ten years, taken an mportant part in the public life of Bombay He has been a member of the Corporation since 1898, has served as Chair man of the Standing Committee, and was elected in 1907 to the President ship of the Corporation He is also Chairman of the Bombay Mill owners' Association The Govern-

ment of Bombay nominated him as a non-official member of the Piovincial Legislative Council in 1903 and again in 1905 When the Congress was held in Bombay in 1904, it was resolved to hold an Industrial Exhib tion in connection therewith and Sir Vithaldas was elected Chair man of the Exhibition Committee The Bombay Industrial Exhibition of 1904 was the lugest and most successful of the Exhibitions held in connection with the Congress Sil Vithaldas was chosen President of the second Industrial Conference held at Calcutta in 1906, which was attended by representatives from all parts of the country, and in which prominent Indians and Anglo Indians interested in India's

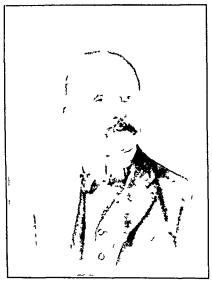


Hon Sir V D THACKERSEY

industrial condition took part Sir Vithaldas takes a deep interest in the progress of mining in India He is also the Chairman of a large Indian Bank, named The Indian Specie Bank, with a capital of two crores of rupees, and branches in many towns He is also associated with many Joint Stock Companies as a Director Bombay has good reason to be proud of a citizen of such solid worth

At the request of the Govern ment of India, Sir Vithaldas was nominated jointly by the Bombay Chamber of Commerce and the Bombay Mill-owners' Association as their representative on the Indian Factory furlough for ten months When he returned, he superintended the erection of the Railway Terminus, which is the largest building constructed in Asia in modern times His public services were recognized at this period, and he was appointed 2 Fellow of the Bombay University In 1884 Mi Stevens was allowed to resign his services with the Prior to his retire Government ment, Government had nominated him as a member of the Municipal In 1887 Lord Rew Corporation made him a member of the scheme for the further extension of Bombay In 1888 the Bombay Corporation entrusted to him the designing of the Municipal Buildings services rendered in connection with public buildings in Bombay," the Companionship of the Order of the Indian Empire was conferred upon him in 1889 He also designed the new Administrative Offices of the B B and C I Railway at Church Gate, Bombay, the reconstruction of the Oriental Life Assurance Offices from the premises formerly occupied by the Cathedral High School, the Alfred Sailors' Home, and the Post Office Mews on the Apollo Bunder His last substantial work was the designing of the Chartered Bank Offices Among buildings in other parts of India which were designed and constructed by him may be mentioned Govern ment House, Nami Tal, the Court Houses, Mehsana, in the Baroda Territory, the Standard Offices Calcutta, buildings in connection with the water-works at Cawnpore, Agra, and Benares, and the church at Igatpuri He also undertook various works in connection with drainage, water supply, sea walls, reclamations, and roads As Execu tive Engineer of the Presidenecy Division, Mr Stevens was elected an Associate of the Institution of Civil Engineers, England, in Decem ber 1881, Fellow of the Institute of British Architects in April 1883 In 1862 63 he secured two prize medals from the Science and Art Depart ment, England, for civil engineering and designs In 1869 he obtained a Gold Medal and Rs 300 from the Sassoon Mechanics, Institute for architectural and engineering In 1872 he received a firstclass Silver Medal for the best set of architectural designs in the Bombay

Exhibition, and in the Exhibition of the year 1879 he was inarded a first class Gold Medal for similar designs. Among his many other activities he found time to become the inventor of some patent fastenings for securing ruly is rails to chairs, and of a connection for rulway rails. Mr. Stevens has contributed towards the embellish ment of the city of Bomb is much that is best in its irclificational beauty, inspiring that insensible education of the public eve to graceful form fine proportion and glowing perspective qualities idorning ind that have ın hum mising influence Mr Stevens had great love for "Gothic," and it



The late Mr F W STEVENS

is in "Gothic" that all his greatest work survives. Notwithstanding this preference, he could, when called upon, handle Renaissance with iemarkable success. He carried out with conspicuous success the blending of Venetian Gothic with Indian Saiacenic by which he created a style of aichitecture so excellently adapted to the climate and environment of Bombay. His success was the product of his own brain, of the definess of his own right hand, and the doughty toughness of his resolve to turn out everything to the best of his capacity.

Mr CHARLES FREDERICK STEVENS, M S A , J P , Senior Mem

ber of Stevens & Co., Itd., was born in Bombiy in 1872 and was educated in Bath, in England, and Bristol University He returned to India in 1502 and wis articled to his father, the late Mr. F W Stevens, and after serving three years he was made Chief Assistant. In 1806 h. was elected a Member of the Society of Architects of London and was made a J. P. in 1895. In 1991, in open competition he won the first prize for the best elevation of the Mili tiry Secretariit, Calcutta ilso obtained the first prize in the City of Bombay for the design of the City Improvement Irust Office, carried out under his immediate supervision. The "I dward Memo rial Hall 'at Indore Central India opened by H.R. H. the Prince of Wales in 1906 was designed and constructed by Mr Stevens. The large residences for H. H. the Mahariji Gickwir of Birodi and the Technical Institute of Baroda are also constructed by him. He is Consulting Engineer to the Biroda At present, the works under State construction are the Iaw Courts and the Summer Palace for H H Maharaja Holkar a Serai and other buildings for the Indore Durbar, ind several other private and domestic buildings in India, Burma, and Africa The firm carries out all building work for the National Bank in India and Africa

JOHN DUNCAN STRA CHAN Inte Chief Loco Superinten dent East Indian Railway, was born in 1829 at Aberdeen, Scotland, and educated in his native city He served his apprenticeship to engineering at the same place, after which he joined Robert and William Hawthorn's Engineering firm at Newcastle on-Tyne, where he remained for five years and a half Having obtained in engagement with the East Indian Railway Com pany, he proceeded to India and arrived in Calcutta in January 1857, and was sent up country to Allaha bad, in the Locomotive Department of the Company His service with the East Indian Railway extended over a period of 34 years, and at the time of his retirement from the Company's service he was Chief Loco Superintendent of the Loco motive Department at Jamalpur

A special feature of Mr. Gopinatha Tawker's method of business is bold speculation tempered by prudence and based on a calculation of chances. Takks of rupees worth of jewellers have been sent at considerable rist to Cabul the sent of H. W. the Anni vith highly gratifying results. Continental merchants import his wares and precious stones in large quantities an infuling sign of their intrinsic worth and of the appreciation that they command

Mr Gopin ith (1 interencourages his brother traders with substantial help and sometimes with valuable advice. Among his patrons are --His Majesty the Amir of Afghanistin H H the Shih of Persia H H the Sizim of Hyderibid Their Highnesses the Maharijahs of Mysore Baroda Travancore Patrala Jodhpur Jupur Dholpur Benarcs and Viziningram In Architecture of which he has made a special study. Mr. Fayker has given ample proof of his ability in design and scientific execution in his three palitial buildings two on the Mount Road, occupied by his firm and that of Messrs White way I aidlew & Co, respectively, and one at

Royapettah all of which have considerably added to the beauty of the city

Another subject to which Mr. Gopmitha, lanker has non successfully turned his attention is agri-He has been at considerable cost experimenting on his valuable properties with a view to discover the advintages of the employment of modern implements of agriculture and to give his experience to the cultivating classes. His scientifically cultivated firm near Red Hills, which was visited by H. E. the Governor and other important Government officials bears ample evidence of the labour and thought bestowed on all concerns undertaken by him Mr Gopinatha Lawker is able to devote some of his time to industries other than the jeweller's business as he is assisted by his two brothers the second of whom is well known in Southern India as in expert connoisseur of gems Mr Gopinitha Tawker has become rich by his untiring industry patient application and careful system and has advanced the indigenous jewellery trade in its artistic branch to a very great extent

Messrs F E THOMSON & Co, Ld, 9, Esplande, Last, Mechan icil and Electrical Engineers, Iron mongers, Silversmiths, Metal Merchints and Contractors, without doubt the largest and best known European Hardware firm through out India and Burma

The firm, whose parent House is Messrs John Shaw & Sons (Wolverhampton), Ld Wolverhampton, was originally established by a Mr. I. L. Thomson in 1820 on a site now occupied by a portion of the Catal Lastern Hotel, and while the Earl of Mona P.C. was Governor General of Lort William.

Dating from the inception of the firm is the 'Original Hurdward Establishment in India and continuing to be known familiarly as I I Thomson & Co. it has developed from a small beginning to its present magnitude

The premises to 9 Esplande East illustrated below have been in occupation by the firm since the year 1853. They are situated in the pleasantest portion of Calcutta immediately facing the maidan, and are in the main of considerable historical interest.

The higher portion of the old building is the original, though slightly



Messis T E Thouson & Co's Premises

Commission appointed to investigate the conditions of factory labour in India and to make suggestions for As a Member their improvement of the Commission he visited all the principal industrial towns in India and Burma and subsequently took an active part in drafting the report at Simla On the King's Birthdiv in June 1908, the honour of Knight hood was conferred on him by His Majesty in recognition of his many services to the public Su Vithaldas is one of the youngest Indians to get the coveted honour being only thirty-six years of age. The news of his kn ghthood was received with satisfaction all over the country, by Europeans and Indians alike, and consequently messages were sent to him by many of the highest officials in the country as well as by distinguished non-officials. The following sentences taken from a leading article in the Times of India well express the general opinion -

"Sir Vithaldas Thackersey must be our youngest Knight outside the ruling families, but none is more worthy of the honour lie is only thirty-six years of age, but he has clowded into those years any amount of public work which many older men must envy The head of a great and flourishing industrial house, Sir Vithaldis his yet made the time to act twice as Chairman of the Mill-owners' Association to pass the President's chair of the Bombay Corporation and to take an active interest in many other beneficial public works To mention only two, in the housing of the poor and the formation of a land bank to operate in the irrigated tracts Sir Vithaldas has evolved practicable schemes which must ultimately bear fruit Even if Sir Vithaldas has done nothing more than accept a seat on the Factory Commission we should say that he is one of those whom Government should delight to honour, for it involved a great sacrifice of his business interests, whilst at the same time enabling the textile industry to be most authoritatively represented One thing more needs to be said Sir Vithaldas does not advertise and in the new Knight Bombay City in general, and the Bhattia Community in particular, have a citizen whom all classes honour "

Mr I GOPINATHA IAWKLR is the chief partner in the Firm of Tawker & Sons, Jewellers and Merchants in precious stones of Indian and continent of Indian

The Tawkers of Midris who are the descendints of the State jewellers to the fumous Mihratti Ruler Sivaji and his successors came to Southern India at their royal patron's command and settled at Tanjore when Sivaji's supremacy was established over that kingdom in the 17th century Of a noble family the Lawkers would appear to have been originally jewellers to the Royal house alone in the spirit of exclusion which usually characterised families



Mr T G Tankli

of distinction Just before and after the decline and fall of the royal family of Tanjore the Tawkers extended the scope of their transactions to others less highly placed in the social scale, and their business expanded so rapidly that the royal jewellers established their reputation as merchants in precious stones in Madras (whither they had turned their attention), even as far back as fifty years ago

The family business was being carried on in an unostentatious manner by Mr Ranganatha Tawker, Mr Gopinatha Tawker's father, at his residence in Sow-

carpet. The demand for increased efficiency to cope with the in-ercising business relations led to a change of career in Mr Copin tha Tivler's life Born m 1862 and with a brilliant scholastic circer before him Mr Copinithi Liwler was called upon to determine whether he would prosecute his studies in the College department, having brilliantly matriculated it an early up or join his incestral profession of jewellers and diamond merchants. It was then that the prejudices of the time that held that trade in any form could not command respect bittled within Mr. Gopinithia Tawker's young mind for mistery over the accumulated experiences of ages in his finily. The phibility of mind it that early age coupled with the habit of implicit obedience shown to his fither at ill times, decided the issue in fivour of his father's calling Early in his career is a jeweller he came under the influence of H H the late Maharajah of Vizianagram, popularly known as ' the charming Prince of India' The Muharijah's patronage gave in impetus to Mr Gopinatha Inwher's business tilents and at the Wihiriph's suggestion he undertook the irduous task of touring through India in search of precious stones of historical antiquity So successful was he, that a collection of these which for rarity antiquarian worth, and historical associations, is really unique, now adorns the showroom at his palatral business premises at Mount Road, Madras, a collection that attracts universal attention and draws unstinted praise from Continental princes and nobility Mr Gopinatha Tawker gave special impetus to the Art Department, and developed and improved upon the old methods and models to suit modern taste to such an extent, that when his collection was exhibited at the Delhi Durbar, Sir George Watt described the exhibits as a "superb display "When, at His Majesty's Coronation, his artistic wards and priceless stones of unusual size and bulliance were on view, the Royal Family and the nobility gave unsolicited testimonials in glowing terms

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altered edifice where, according to tradition, Warren Hastings lived in 1774 when Governoi General under the East India Company

Of recent years trade his developed in a most marrellous manner, and in order to meet the

out with electricity and continuing a stock replete with dimest every conceivable utale in demand, there is, perhaps, no finer emporium to be found in the city

The Firm's Workshop* embrying the Engineering Heetited and

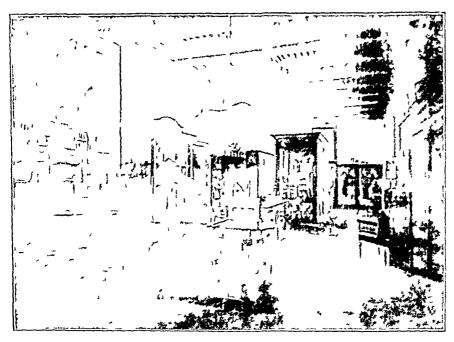
Cycle brinches of the business occupy commodious premiers, eith ited it there are of the man building, in lithere controlled by expert lurope in enemiers. I implosment is found for a very lurge staff of trained mechanics.

The miner stock, comprising Lowlish and American hards are carried by the firm, is a matter of surprise to most people visiture the establishment while mother object of except and interest is the hands one cat do we issued verify by the firm. It contains up virils of Soo profusely illustrated pages setting forth everything, that is latest and best in hardy in

The control of the business is vested in the Manager, Mr. J. S. Harris, assisted by Mr. J. Bazelev and Mr. J. H. Wagett, Assistant, Managers.

The heid quarters of the

firm is before indicated the Mess's John Shaw & Sons (Wolverhampton) Id, Wolverhampton Staffordshire, Ingland with offices at 11, Charter House Street, Holborn 82 Iraneous Navier Street Montreal Long Market Street Cape Town, and 10



Messis T L Thomson & Co & Show Kooms

demand for increased accommodation and to facilitate the handling of an ever increasing business at was found needful some five years ago to acquire extensive property and largely increased godown accommodation in Bentinck Lane and Dhurrumtollah Street

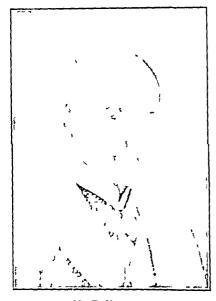
No longer than two years ago it was decided to carry out extensive structural alterations at the No 9, Esplanade premises, this was accordingly done with very satisfactory and pleasing results

The new façade in white sand stone, the conception of which was carried out by Messrs Mackintosh, Buin & Co, is one of the most imposing and graceful frontages to be found in Calcutta The valuable increase in show room space and storage accommodation generally has proved a great boon, and with the establishment lighted through-



Messis T E Thouson & Co's Show Rooms

through the different grades in the Bank's service as Assistant, Accountant and Agent He was appointed General Manager in 1897 and subsequently in the Director Mr. Weston is also a Director of



Mr F Weston

the Standard Life Assurance Com pany and committee-man of the Wheeler Club, Limited, Mcerut He is one of the working committee of the Bengal Punjab Rifle Associa He is a well known lifte shot and is one of the few who have won the Viceroy's Gold Medal at the B P R A Meeting The Pronecr newspapei, a few years ago, mentioned him as among the first five famous marksmen of India good cricketei ınd footballer, he was Honorary Secretary of the Simla Cricket Club and of the Durand Football Tournament until he left Simla to take up the man agement of the Bank He is married to the daughter of the late Mr W Wilson, of Meerut, and his three sons and two daughters His eldest son, Mr B A Weston, is Agent of the Bank of Upper India at Simla, and his second son, Mr G A Weston, is Superintendent in the Punjab Police The third son, Mr R D Weston, is an officer in the Militia Battalion of the Middlesex Regiment at Hounslow

Messrs VAI ABHDAS, LAKH-MIDAS & Co, 36, Churchgate St,

Lort, Bombay, was established in December 1902 under the title of Messis Valabled is Runchord is & Co, the partners then is now beau Mr Vilabhdas Runchordas and Mr. I ikhmid is Rowji Fursee. The firm is chiefly interested in in ports, though it curies on a small export tride with Inclind America and Germany The lines worked by the firm are various including hardware, cycles, mediene, soaps, etc. but they are principally interested in till ing machines, the business in which his been developed to such in extent that it has bearightly called 'one of the largest talling machine concerns in the I ii I ist - The firm are the sole Agents for the "Bel a



Mr. VALABRIDAS ICENCHOLDAS

Indian Disc Records ' for India Burma and Ceylon, and markets these and other talking machine lines under a separate department styled "The Talking Machine and Indian Record Co," having a branch depot at 7, Bow Bazar Street, Calcutta and distribut ing agents in all the principal cities of India It also holds agencies for genuine Edison, Columbia and Pathe products, and is the sole distributing agency for the Bombay Presidency of The Gramophone and Typewriter Co, Id, and also sole agents for Brooke Bond's teas for the Bombay Presidency The firm has connec tions in all principal European and American commercial centres also carries on a banking and finance business on a small scale

Valibbelis was a partner in Me 878 Churchill and Hoo ein of Loudon, Manch ar and Bombay batter has joined he present firm. Mr. Lakh mides as a graduate of the Bombay University in Arts and as also a



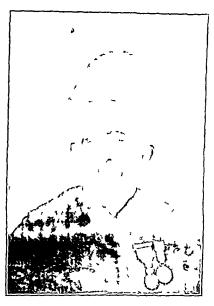
Mr. I. K. Tansii

large landed proprietor. Both the partners belong to the Bhattia community, which is highly reputed in the Bombay Presidency for its commercial instincts.

The VALVOLINI OII Company, 30 Strand Road, Calcutta Head Offices Liverpool and New York Established in Bombay in the Members of the firm year 1507 Members of the firm Messrs C R Boult and D Ellis Head Office in the Dist 30 Strand Road, Calcutta Brunches Bom bay, Madius, Rangoon, Lucknow, etc. Agencies all over India and in the Fai East including Hong Kong, Shanghai and Japan. The firm which has been doing business for the past 40 years, was represent ed in the List through igents for nearly 20 years. It deals in lubricat ing oil specially manufactured by a process of superheated steim, protected under a patent It also manufactures a special "Boiler Fluid" called "Ucaly psum" These lubricints ind boiler compositions are manufactured in its own refineries and factories, the former in New Jersey and Pennsylvania, and the latter in Tasmania

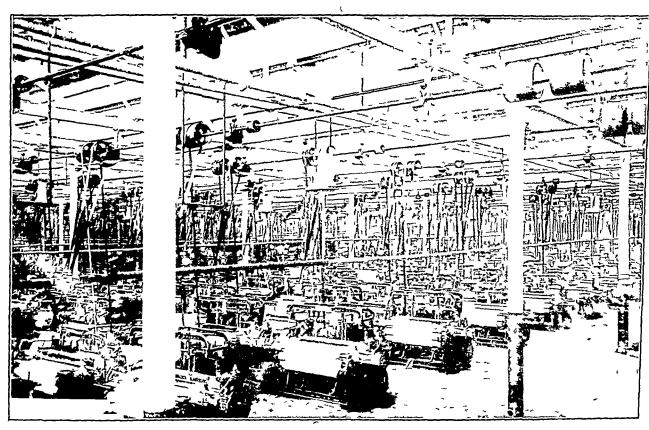
his father's skill and was a prominent man of his time. But at this period the family had ceased to devote their attention entirely to shipbuilding They had entered commercial life and took up bus ness as brokers and in negotiating loans for native princes and others For his valuable service as the agent of the French Government in India Mr. Jehangeer Wadia vas presented with a gold medal by I ours Phillippe On his death without male issue the shipbuilding crift seems to have been abandoned by the family for want of a son mheriting the genius of the first Wadia and his son. The splendid fortune left by Mr Jehangeer Wada passed to his daughter. Bai Mollibai Wadia a very famous lady of her time She continued the commercial side of the fam has business and added considerably to the original wealth transmitted to her, owing to her great business capacity. She unfortunately lost her husband at the age of 26 and for the next 60

vens devoted heiself to a life of widowhood and good works. But



Mr N W WIDII

Molliba was the mother of the present representative of the family, Mr Nowrojee M Wadia The habit of charity which she practised during her long life has descended to her son During her lifetime Bai Mollibai gave away to deserving works no less a sum than twenty-six lakhs of tupees Her public charities included Rs 400 000 for the hospital at Bombay which bears her name Rs 1,25,000 for the fire temple at Udwada and Rs 1 33,000 to the Petit Orphanage Despite these beneficences owing to his mother's great business qualities Mr Nowrojee M Wadia inherited at her death which took place in 1897 one of the greatest fortunes in India Heicewed a sound truning in vernicular and English and established with his brother Jehargii N Wadii (since deceased) i hrm under that name which entered into extensive commercial dealings with Europe In 1865 Vi Novrojec Wadia travelled in Europe and was personally received by the Emperor



INTERIOR OF MESSES N WADIA AND SONS' TEXTILE MILLS, BOMBAY

Bombay Dyeing Company The firm represents, as Sole Agents —

Messrs Platt Bios & Co, Ld Oldham
in Cotton Machinery

"Hiel Hargreaves & Co, Ld,
Bolton, in Engines and Boilers

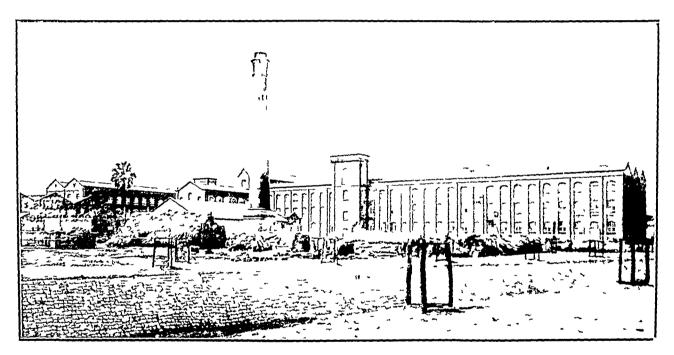
"J P Hall & Co, Oldham,
in Electrical Appliances

" John Whiteley & Sons, Halifax, in Caid Fillets

" Wilson Bios & Co, Ld, Gn ston, Liverpool, in Bobbins " Endie Bros & Co, Paisley

The firm has agencies all over India and corresponding agents in various parts of Europe The present part was identified a member of the Institute of Michanical Engineers London He was appointed a Justice of the Peace for the Island of Bombay in the year 1006. He is Chairman of the Bombas Dueing Company and a Director of the Textile Manufacturing Company

Mt NOWROJEE MINECKJI I WIDII CIT—This gentleman comes from the well-I nown Pirsec family of that name. The Wadiis during the eighteenth and the early half of the nineteenth century were settled at Bombay as ship-builders with the maritime English nation During the century and more that Seth Yovice Nusservanice Wadia and his descendants carried on the building of ships it Bombay the business of designing and constructing the vessels built remained entirely a native hands. The origmil Wadie vis thus the first to demonstrate that work on European lines could be efficiently carried out by Asiatics without any assistance except from their own brains and hands During the years they practised the shipwright art the Widn's produced some



INTERIOR OF MISSIS N WADIN AND SONS TINTHE MILLS, BOMBAY

ners in the firm are Messis Nasserwan jee Nowrosjee Wadia, JP, MIME, Rustumjee Nowrosjee Wadia, and George Ashby Mr N N Wadia senior paitner to the film, was boin in Bombay in 1873, and was educated at St Xavier's College, Bombay On leaving his school at the age of 15 vears he was apprenticed to his father, the Hon Mi Wadia, under whom he received a thorough education in Engineering, Cotton Spinning, Weaving and Dyeing, and the conduct of a Cotton Mill In 1891 he was admitted a paitner in his father's business, and in 1901 he

on no mean scale at a time when the countries East of Suez were undistinguished by any skill in the art. The founder of the family and great grandfather of the subject of this sketch, Seth Lowjee Nusserwanjee Wadia, who was born at Surat in the year 1710, had a peculiar bent towards the shipwright's craft, and acquired such knowledge and skill in the same that his work came to be held in equal esteem with the best examples turned out in Europe The Parsee-built ships of Bombay acquired a great reputation even

350 men-of-war and other vessels. The men-of-war were constructed to the orders of the Government of India and gave complete satisfaction for their stout and sen-worthy qualities, and the firm were awarded not only a gold medal but an extensive estate at Salsette near Bombay, which remains in the family to this day. Seth Nusserwanjee Wadha in return for services rendered by him to the French Government was decorated with the Legion of Honour by Napoleon Bonaparte. The grandfather of Mr. Nowrojee N. Wadia inherited

ADDENDA

ASHTON, A H, deceased

 BIJAY CHAND MAHTAB BAHADUR, Maharaj Adhiraj of Burdwan, page 191, is now Maharaja Bhiraj Bahadur Bijay Chand Mahtab

DEANE, Lt Col Sir Harold, deceased

DENTITH, A W, 1cs, Volume I, page 153, was appointed Deputy Comptroller, India Treasuries, in 1907

DUDHORIA, Bijoy Singh, page 196, is now Raja Bijoy Singh Dudhoria, Bahadur, the title of "Raja" having been conferred on him on the 26th June, 1908, on the occasion of the celebration of His Majesty the King Emperor's birthday

GREEVEN, Hon'ble Mr R, deceased

HOLMWOOD, Hon'ble Mr Justice H, Volume I, page 170, was confirmed as a Judge of the High Court, Calcutta, by Letters Patent, dated 8th January, 1907, in the place of Mr Justice Pratt, retired

IACOB, Rev P H, deceased

JAFFER JOOSAB & CO, Bombay, Volume I, prge 312
Since the notice was printed, Messrs Jaffer
Joosab & Co have floated an Indian Insurance
Company under the style of "All India United
Insurance Co, Ld," with a capital of
Rs 50,00,000 under the Chairmanship of the
Hon'ble Sir Pherozeshah M Mehta k C1F,
which has proved a success Messrs Jaffer
Joosab & Co have been appointed its Secretaries

KEMP, N W, Volume I, page 175, is now Chief Judge of the Small Cause Court, Bombay, having been promoted to his present appointment on the 30th April, 1907

MARSH, H, CIE, page 169, add at end "Married twice, first in 1879 A M Smyth King, daughter of the Dean of Leighlin who died in 1881, and again in 1884, Helen Elizabeth, daughter of Rev J H Freke, Rector of Stackallan"

SHAFI, Man Mahomed, page 235, is now Khan Bahadur Man Mahomed Shafi Col 3, line 22, after "and other legislative measures relating to the Punjah," add "In recognition of his position in the Punjah Bar, His Excellency the Viceroy has, on the recommendation of the Judges of the Chief Court and the Punjah Government, conferred on him the title Khan Bahadur" Line 27, after the word "Fellow" add "and Syndic" Add at the end "He was one of the earliest workers on the movement which has resulted in the formation of the All India Muslim I eague and has been elected as the Honorary General Secretary of the Provincial Muslim League, Punjah In September, 1907, the late Sir Denzil Ibbetson nominated him as a member of the Committee which sat it Simla to consider the future ad ministration of plague measures in the Punjah, and he has done useful work in popularizing plague measures amongst the Mahomedan Community in that Province"

SMITHE, E DUCANE, deceased



Napoleon III The "Share mania" of 1864 hit the firm of J Nowrojec & Co haidly In 1867 Mr Nourotee Wadia closed the business and devoted himself to other pursuits including public business. He was appointed a Justice of the Peace in 1873, and the Government accognized his lifetime of good works with the honour of a Com panionship of the Indian Empire Mr Novrojee Wadin was present with Sir Jamsetjee Jeejeebhoy at the Imperial Assemblage it Delhi on the assumption of the title of Empress by Queen Victoria In munificence Mi Nowrotee Wadia, since his accession to the headship of the family, has been noted for his benefactions, which in two and a half years after his mother's death announced to over forty-two thousand rupees Wadia is known for his charities, but time alone can show how many have cause to be grate tul to this Parsee philanthropist and descendant of the famous shipwright

WESTS PAIENT PRESS Company, Timited, Cotton Pressers



Mr G E GRABHAM

and one of the poneers of the Cotton Press Industry in India

Established in India in the year The original Company was first started in London in 1872, and its Indian Branch was first opened it Aligarh in 1881, for the purpose of guning and pressing cotton. The Company has ginning and pres-ing houses at various stations in India and it has given a great an pctus to the growth of the cotton industry in general by the intro duction of hydraulic presses of which the Company is one of the pionecis Since the establishment of the Company the cotton in dustry in India has extended enormously all throughout the land and the Company deserves and itable mention in the annuls of the Cotton Industry in India for the introduction of hydraulic cotton presses and the facilitation of the carringe of cotton from one place to mother. Mr George I dward Grab ham who tomed the Company in London in 1887 is the local Agent for its Aligarh Division

Messrs WINN & CO Sculptors ind Continctors Allahabad Propietor Mr. H. W. Wini - The late Tames Winn formerly Capt un in the Indian Sub Medical Service estab lished this business at Chun'u in the year 1882. It was carried on personally by him till his death in the year 1888, when it was continued by the present proprietor his son, Mr H W The business having it tained large dimensions, Mr. Winn found it idvisable to transfer his head quarters to Allahabad, keep ing on Chun ii where the stone quaries are situated, is a branch The Chunai stone is utilized for both building and monument if pur poses, the firm ilso importing marble from Italy, Sicily and Belgium The business is the fore most in this line in Northern India, giving employment to about thuty skilled workmen, most of whom have been in the service for veriods of from 15 to 25 years Messrs Winn & Co are noted for fine workmanship Specimens of then work me to be seen in the pedestals of the Queen Victoria Memorials at Budaon, Gorikhpur,

and fateligarn and also in the Lamine Relief Memorials at Jub bulpore and Nagpur which were creeted by the Central Provinces Government Some of the marble fittings at the Vicetey at Lodge,



Mr H W Wiss

Similar to also the work of the firm Then architectural and monumental sculpture 5 to be found throughout Inda the business having a very wide scope

The proprietor Mr Herbert William Winn was born in the Punjab in the ver 1865 He received his education it various schools in the United Provinces and at Calcutta, and in 1886 passed hs eximination as a schoolmaster, obtuning his certificate. On the death of his father Mr Winn decided to adopt a mercantile career, in which he has attained considerable success the business having greatly increased under his ible supervision. He has been associated with Treemasonia since the year 1801 and has obtained all the degrees attainable in India He is a keen volunteer, having been a member of the Allahabad Light Horse since the formation of that corps in 1884. He actued from active volunteering, with the rank of seigeant and the long service medal, in 1905

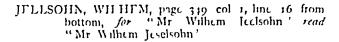


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ol 1, 1st line, for "Malabar" read "Malabar" line 24, for "Malabar" read "Malabar" page 76, col 1, line 9 for "Crissa" read "Orissa", col 2, line 3, for "1718" read "1720", line 17, for "1863" read "1836", page 77, col 1, line 5, for "1718" read "1720", line 10 from bottom, for "San Thoms" read "San Ihome" page 81, col 1, line 15 from bottom for "they" read "there", page 83, col 1, Bibliography, read —

"Philipos, the Syrian Church in Malabar, 1869," Kennet, St. Thomas the Apostle of India, 1882," "Coleridge, I ife, etc., for '1988, read '1886," "Cros, Vie de St. Iran Cois Vavier, for 'I ran Cois' read, 'Francois'."



RAY, G. C., volume I, page 195, line 13, for "Assistant Comptroller General" reac' Deputy Comptroller General" line 6 from bottom, for "1900" read "1891"

SOI OMON & CO, D, Volume I, pige 383 col 1, lines 23 and 24, for "Joint Honorary Secretary of the Jewish Burial Ground" read "Honorary Secretary of the Hebrew Burial Board"



Mr KARMALLY JOOSAB

The above was erroneously shown in Vol I, page 312, as he photograph of Mr Jaffer It is the photograph of Mr Karmally Joosab, the founder of the firm of Messrs affer Joosab & Co, Bombay



Sir Dinshaw M PFTIT, Bart

The above was erroneously shown in Vol I, page 365, as the photograph of the late Sir Dinshaw M Petit It is the photograph of the present Sir Dinshaw M Petit, Bart, of Petit Hall, Malabar Hill, Bombay

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